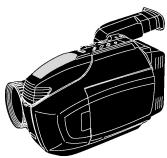
# Service Manual

**Compact VHS Camcorder** 

### Palmcorder VHSI PalmSight™





MODELS: PV-D300/ VM-L100 PV-L550/ PV-L600 PV-L650/ VM-L450

**VM-D100 PV-L550 PV-L600 PV-L650 VM-L450** 

**PV-D300** 

ITEM	SPECIFICATION	1 2	2 3	4 5	6	ITEM	SPECIFICATION	12	3 4 5	6
Power	Compact VHS Camcorder: DC 6 V AC Adaptor: 110/120/220/240 V AC, 50/60 Hz Battery: Nickel-Cadmium Type DC 6 V					Pick-Up System	Sequential color difference field reverse system	00	000	<b>&gt;</b> 0
Source		loic		oc		Pick-Up Device	One integral color filter Charge Coupled Device (CCD)	00	000	<b>&gt;</b> O
Power Consumption	Compact VHS Camcorder: 6 V DC 6.0 W (Max. 9.0 W) 6 V DC 8.5 W (Max. 11.5 W) AC Adaptor: 24 W 1.2 W (when not in use.)		-00	oc		Lens	18 : 1 zoom lens, F1: 1.6 with auto iris control Focal length: 3.9 mm - 70.2 mm 4 speed power zoom function Lens filter diameter: 49 mm	00	000	<b>&gt;</b> O
Video Signal	EIA Standard (525 lines, 60 fields) NTSC color signal	oc	00	00	00	Viewfinder	11.2 mm (0.44 inch) Liquid Crystal color Electronic Viewfinder 10.2 mm (0.4 inch) Electronic Viewfinder	o <b>-</b>	000	
Video Recording System	Head: 2 rotary heads plus flying erase head. Helical scanning system Signal-to-Noise Ratio: SP: more than 43 dB SLP: more than 41 dB Horizontal Resolution (Color/Monochrome) Recording: more than 300 lines	oc		00	0	LCD Monitor	63.5 mm (2.5 inch) Liquid Crystal Display 76.2 mm (3.0 inch) Liquid Crystal Display 101.6 mm (4.0 inch) Liquid Crystal Display		0	
	Playback: more than 230 lines  Head: Normal Mono: 1 stationary head					Minimum Illumination Required	0.8 lx (F1: 1.6) 0.08 footcandles 7 lx (F1: 1.6) 0.7 footcandles (EIA Standard)	00	000	>0
Audio	MIC Input Level (M3 type) - 70 dB	00		0000	0	Operating Condition	0 °C $\sim$ 40 °C (32 °F $\sim$ 104 °F) (Temperature) 10 % $\sim$ 75 % (Humidity)	00	000	>0
						14(-:	0.87 kg (1.92 lbs.) 1.0 kg (2.2 lbs.)	00	- -  - -	- 0
Таре	P: 1-5/16 i.p.s (33.35 mm/s), SLP: 7/16 i.p.s (11.12 mm/s) ecord/Playback Time: SP: Max. 30 min, SLP: Max. 90 min, with TC-30 Tape					Weight	1.02 kg (2.25 lbs.) 1.05 kg (2.3 lbs.)	- -	-0- 0	· -   -
Speed	FF Time: Less than 7 min. (TC-30 Tape) REW Time: Less than 4 min. (TC-30 Tape)			Dimension	101 mm x 118 mm x 180 mm (4 inch x 4-5/8 inch x 7-1/8 inch) (W x H x D) 108 mm x 118 mm x 180 mm (4-1/4 inch x 4-5/8 inch x 7-1/8 inch) (W x H x D)	1 1		1 1		
Tape Format	Tape width 12.7 mm (0.5 inch) high density tape	oc		00	0		, , , , ,			

4. PV-L600 1. PV-D300

2. VM-D100 5. PV-L650

3. PV-L550

Weight and dimensions shown are approximate. Designs and specifications are subject to change without notice.

Regarding the Service Manual of the AC Adaptor for model PV-A17, please refer to the Service Manual / Order No. MKW9512M302.



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#### 1 SAFETY PRECAUTIONS

#### **GENERAL GUIDELINES**

#### 1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  $\triangle$  in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

- 2. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
- 3. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

#### LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1  $M\Omega$  and 5.2  $M\Omega$ . When the exposed metal does not have a return path to the chassis, the reading must be infinity.

#### LEAKAGE CURRENT HOT CHECK

#### (See Figure 1.)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5 k $\Omega$ , 10 W resistor, in parallel with a 0.15  $\mu F$  capacitor, between each exposed metallic part on the set and a good earth ground, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1 M $\Omega$ /V or more sensitivity, to measure the potential across the resistor.
- Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet and repeat each of the above measurements.

# 6. The potential at any point should not exceed 0.75 V RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 mA. In case a measurement is outside of the /limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

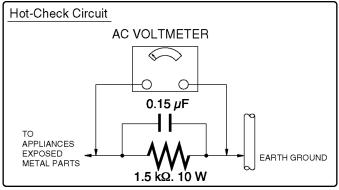


Figure. 1

#### 4 OPERATION GUIDE

#### **Quick Operation Guide**

#### **Charging the Battery Pack**

Charge Battery Pack fully before operation.



#### Insert Cassette

2 Slide TAPE EJECT to open door. Attach fully charged Battery. Insert cassette. 4

#### Camera Recording

When the LCD monitor is open, the EVF automatically turns OFF.

Press here to close door.



#### (PV-L550/PV-L600/PV-L650/VM-L450)

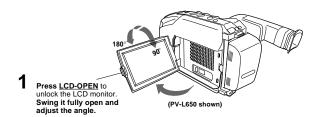
#### Playback using the LCD Monitor

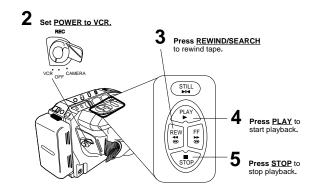
automatically turns OFF.

When the LCD monitor is open, the EVF

Before you begin...

• Charge Battery Pack fully before operation.

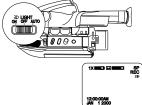




#### **Built-in Auto Light**

#### Using the Light

For recording in dim lighting.



#### Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.

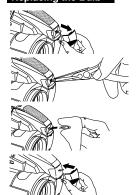
Set <u>LIGHT to AUTO</u>. Light turns on/off automatically according to lighting conditions.

Or, set LIGHT to ON/OFF manually.

₹D appears in EVF or LCD Monitor when

Light becomes hot. Never cover Light while

#### Replacing the Bulb



- Before you begin...

   Order Part No. VULS0001 (VLLW0015 and cushions) for replacement bulb unit.

   Set POWER to OFF.
- Press in on both sides of lens cover and pull straight out and off.
- Using Tweezers or needle-nose pliers, carefully remove bulb.
  - Take unit to service center if you need assistance
- Replace bulb using a clean cloth or tissue.
- Replace lens cover.

#### DANGER:

Use only replacement bulb (PART NO. VLLW0015) supplied by Panasonic to reduce risk of fire.

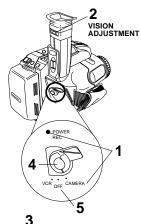
Handle new bulb with cloth or tissue as skin oils will decrease bulb life.

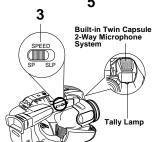
Remove lens cover and allow bulb to cool before replacing to avoid possible burn hazard.

- Using Light reduces battery operating time.
- Provide proper ventilation when using Light extensively in hot environment.
- Using Light when the Camcorder is powered
- by a car battery may shorten bulb life.
  Set Light to OFF when not in use.
- Handle bulb gently. Excessive force may cause bulb to crack.

#### Camera Recording

#### Simple Recording





#### Before you begin...

- Connect Camcorder to power source.
   Insert cassette with record tab.

Set POWER to CAMERA. EVE or

Power lamp lights. Be sure POWER

is fully turned to CAMERA position.

PAUSE

Record/Pause mode.

Look into EVF and adjust <u>VISION</u> <u>ADJUSTMENT</u> to your eyesight.

Press RECORD/PAUSE to start or pause recording.
Tally lamp lights if set to ON.

Slide TAPE SPEED to SP or SLP.

RECORD

Set POWER to OFF when finished.

 To remove cassette. slide TAPE EJECT in Record/ Pause mode

#### Note:

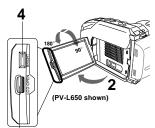
 When Camcorder is aimed at excessively bright objects, or bright lights, a vertical bar may appear in the picture. This is normal for the CCD pick-up. Try to avoid this when

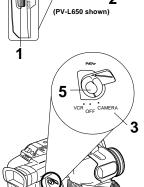
#### Camera Recording

#### (PV-L550/PV-L600/PV-L650/VM-L450)

#### Using the LCD Monitor

View recording scene on the LCD (Liquid Crystal Display) monitor.





#### Before you begin...

- Connect Camcorder to power source.
- Insert cassette with record tab.
- Press <u>LCD-OPEN</u> to unlock LCD monitor.

Swing LCD monitor fully open and adjust viewing angle.

#### Caution:

Rotating partially open LCD monitor may block cassette door and damage Camcorder body.

- Set POWER to CAMERA.
  - . LCD monitor turns on/off by the POWER switch.

    EVF shuts off when LCD monitor is
  - opened and turns back on when LCD is closed.

     Both EVF and LCD monitor turn on
  - when LCD is at 180° (see above

This allows both you and the subject to view the recording.

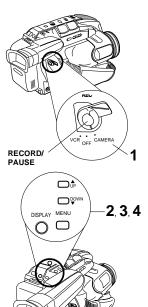
- 4 Turn BRIGHT control to adjust LCD monitor brightness level.
- Press RECORD/PAUSE to start recording.

#### Note:

- Using LCD monitor reduces battery operation
- · Return LCD monitor to locked position when not

#### Stand-by Quick Release

If left in RECORD/PAUSE mode for 5 minutes, Camcorder switches to Stand-by mode to conserve battery. When set to ON, Stand-by Quick Release lets you resume recording by pressing RECORD/PAUSE two times. New camcorders will default to OFF.



#### Before you begin...

- Connect Camcorder to power source.
  Insert cassette with record tab.
- Set POWER to CAMERA.
- Press MENU for MENU mode. Press UP ▲ or DOWN ▼ to select STAND-BY RELEASE.



3 Press <u>DISPLAY</u> to select ON/OFF

ON: From Stand-by mode, press RECORD/PAUSE two times to resume recording.

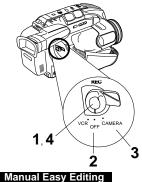
OFF: From Stand-by mode, set POWER to OFF, then to CAMERA.
Press RECORD/PAUSE to record.

Press MENU to exit.

#### Camera Recording (continued)

#### Easy Edit Stand-by

For a smooth transition between scenes if recording is stopped, and then started within 24 hours



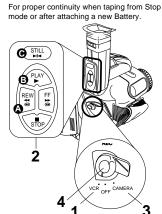
#### Before you begin...

- Connect Camcorder to power source.
   Insert cassette with record tab.
- Press RECORD/PAUSE to stop
- Set POWER to OFF and leave cassette in Camcorder.
- To resume recording, set POWER to CAMERA.
- Press RECORD/PAUSE to resume recording.

 Use Manual Easy Edit (below) if more than 24 hours before recording is resumed.

#### Before you begin...

Connect Camcorder to power source.
 Insert cassette with record tab.



#### Set POWER to VCR.

- A Press REWIND/SEARCH to
  - Press PLAY to review recording.
  - Press STILL where you want to continue recording.
- Set POWER to CAMERA.
- Press RECORD/PAUSE to resume recording.

#### Programmed Recording

Set a recording start and stop time. Or, set a 5 or 10 second interval recording to be done each minute.



#### INTERVAL \* 2 10 SEC/MIN.

- Interval 5 SEC/MIN: Record 5 seconds each minute.
- \*2 Interval 10 SEC/MIN:
- Record 10 seconds each minute.

- Start time may not be set over 24 hours from current time.
- Camcorder shuts off at tape end, or 12 hours after Interval Recording starts.
- . To cancel, set POWER to OFF.

#### Before you begin...

Connect Camcorder to power source.
Use AC Adaptor for longer recordings.
Insert cassette with record tab. Set POWER to CAMERA.

Press MENU for MENU mode. Press UP ▲ or DOWN ▼ to select



 $\textbf{Press}~\underline{\textbf{DISPLAY}}.~(\text{Current time is}$ displayed.)

Each additional press of DISPLAY

increases start time by 30



Press DOWN ▼ to select REC

IIME. Press DISPLAY repeatedly to select one of the options shown at the left.



To cancel the setup, press MENU

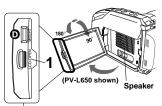
Press RECORD/PAUSE to place Camcorder in stand-by mode.

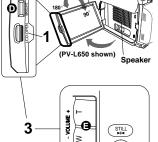


Recording will be done as scheduled.

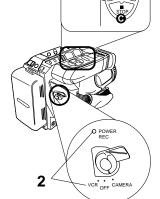
#### Playing Back Recordings

#### Playback on EVF or LCD Monitor





PLAY



#### Before you begin...

- Insert recorded tape.
- Press <u>LCD-OPEN</u> and swing LCD monitor fully open.

  • If you want to playback on EVF,
  - close and lock LCD monitor.
- Set <u>POWER to VCR</u>. Power lamp lights.
  - If tape has no record tab, auto
  - playback begins.
     EVF or LCD monitor turns on/off by the POWER switch.
  - EVF shuts off when LCD monitor is opened and turns back on when LCD is closed.
- Playback function buttons.
  - A REW(ind) : rewind tape.

    B PLAY : play tape. STOP stop tape
  - BRIGHT : adjust LCD monitor brightness.

    S VOLUME: Adjust volume of
  - speaker.
    Press "T" : Volume up(+). Press "W" : Volume down(-).



- · Using LCD monitor reduces battery
- operating time.
   Return LCD monitor to locked position when not in use.

#### Before you begin... Connect Palmcorder to power source. Insert recorded tape. Set POWER to VCR. STILL

#### Quick Visual Search

Search Speed SP (Standard Play) : 3 times normal. SLP (Super Long Play) : 9 times normal.

During playback, press: FF : fast forward search REW : rewind search

Press again or press <u>PLAY</u> for normal play.

#### Still Picture

Press <u>STILL</u> to freeze picture.

Press <u>again</u> for normal play.

This feature is works best in SLP mode.

PLAY

 During search, horizontal noise bars will appear. Audio is muted.
 To protect video heads and tape, operating modes will revert as follows after 5 minutes: ➤ Stand-by

Stand-by -- Power off (when Battery Pack is used)

Tape auto-rewinds if played or fast forwarded to end.

#### Tracking Control

Special Effects

□ <sup>DOV</sup>

MENU

0 

#### **Auto Tracking**

Continuously analyzes each recording for optimum picture quality.

#### **Manual Tracking**

Some recordings require manual adjustment to reduce noise.

Press UP ▲ or DOWN ▼ until Playback picture clears up.

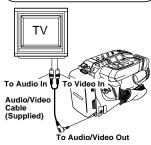
Press DISPLAY to return to Auto Tracking.

#### Playing Back Recordings (continued)

#### TV Playback or Viewing

playback or recordings in progress.

#### TV with AUDIO/VIDEO IN Jacks.



#### Before you begin...

- Connect Camcorder to power source.
   Make all TV-Camcorder connections.

#### Set POWER to:

VCR → view playback.
CAMERA→ view picture as it is recorded

Turn TV ON and set to LINE

INPUT. See TV owner's manual

Begin playback or recording.

If TV has no VIDEO/AUDIO IN jacks, connect PV-RF16 RF Adaptor

(optional). Tune TV to CH 3 or 4 to

match RF Adaptor CH 3/4 Selector.

Set Adaptor's TV/VCR Selector to

b Set RF Adaptor TV/VCR Selector to TV.

To watch TV only, a Set Camcorder POWER to OFF.

Turn TV ON and select channel.

VCR for playback.

#### Playing Back Recordings in a VCR

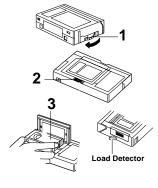
#### Load Battery in PlayPak



Remove Battery lid and insert AA battery.

- Do not reverse polarity.
- Replace battery when tape loading/ unloading takes longer than usual.

#### Insert WISC Cassette in PlayPak



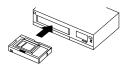
Turn VHS cassette Tape Wheel in direction of arrow to take up any

Slide RELEASE to open cassette lid.

Insert the VHSIP cassette with the window up and on the left, then snap lid shut.

- · Do not obstruct cassette reel while loading.

  • Allow PlayPak Load Detector to fully
- retract before using in VHS VCR.



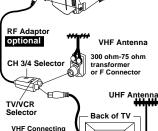


Slide RELEASE and wait for lid to

Push cassette out through hole in bottom of PlayPak with your finger.



TV without AUDIO/VIDEO IN Jacks.



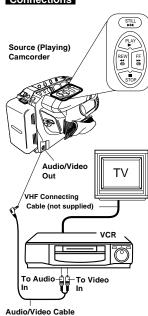
To VHF Antenna

Cable

**CATV System Installer** 

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

#### Copying your Tapes (dubbing)



#### Monitor with your TV

- Turn TV on and tune to VCF channel (CH3 or CH4).
- Set TV/VCR Selector on VCR to VCR.

- Before you begin...
   Make Camcorder-VCR connections
- (see left). Turn both units on
- Set VCR input signal to LINE.
   Please see VCR owner's manual.
   Set Camcorder POWER to VCR.
- Insert a pre-recorded tape into Camcorder and a blank tape with record tab into VCR.
- Press <u>PLAY</u> on Camcorder, then press <u>STILL</u> at starting point.
- Press  $\underline{REC},$  then  $\underline{STILL/PAUSE}$  on VCR.
- Press STILL on Camcorder and STILL/PAUSE on VCR again to start
- Press STOP on both units to stop copying.

#### Note:

- Camcorder will only playback tapes recorded in SP or SLP mode.
   Dubbing may reduce picture quality.

#### CAUTION:

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

#### Power Zoom / Backlight

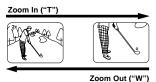
#### Four-Speed Power Zoom

Zoom in (close up) and out (wide angle) in one of four speeds ranging from slow (16 seconds) to fast (2 seconds).



#### Before you begin...

- Connect Camcorder to power source.
  Set POWER to CAMERA.



Zoom slowly: Lightly press "T" (telephoto) or "W" (wide angle) POWER ZOOM button.

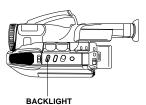
Zoom quickly: Apply more pressure to the button.

#### Backlight

Use when subject is darker than surroundings, in shadowed area, or in front of the light source.

#### Before you begin...

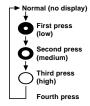
- Connect Camcorder to pow
   Set POWER to CAMERA. er source.



Press <u>BACKLIGHT</u> while recording to select the level of backlight compensation.

In normal lighting, **press <u>BACKLIGHT</u>** repeatedly until no indicator displayed.

#### **EVF or LCD Monitor**



#### Focus

(supplied)

# Auto Focus

(PV-L650 shown)

#### MANUAL

#### Manual Focus

- Use Manual Focus (MF) when : recording through glass
- · lighting is poor.
- bject is far away with objects in foreground.
- · subject has distinct horizontal lines

# (PV-L650 shown) 1,3

#### Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.

Camcorder automatically focuses on subject even during zooming.

Auto Focus is on when "MF" is not displayed in EVF or LCD monitor. **Push MANUAL FOCUS** to remove "MF" in EVF

- subject is not centered in EVF or LCD monitor.
- subject has shiny surface.
- subject is slanted.
- subject is statted.
  subject is bright and flat, like a white wall.
  subject has fast motion, like a golf swing.

#### Push MANUAL FOCUS so "MF" (Manual Focus) appears in EVF or LCD monitor.



- Hold down "T" (telephoto) on POWER ZOOM to maximum zoom
- Turn MANUAL FOCUS until subject
- Back away from subject if necessary.
- Hold down "W" (wide angle) on POWER ZOOM as desired.
- Refocus as needed when aiming at new scenes.

#### Macro Focus (close-ups)

Auto Focus functions up to 12.7 mm (1/2 inch) from subject. Hold down "W" on POWER ZOOM to maximum wide angle. Bring Camcorder up close to the subject.

#### High Speed Shutter

Improves Still or Slow Motion playback picture of high speed subjects (e.g. a tennis stroke), when viewed on Camcorder or 3 or 4 head VCR.

#### Before you begin...

- Connect Camcorder to po Set POWER to CAMERA.

#### Auto Shutter

In AUTO mode (no indication in EVF or LCD Monitor), shutter speed is auto-adjusted from 1/60 to 1/350 according to subject brightness.

AUTO mode is selected each time POWER is set to CAMERA.

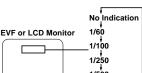
#### Manual Selection

The faster the shutter speed, the more light is needed for proper picture and color quality. High Speed Shutter indication flashes if light is inadequate. Provide additional light.



Press HIGH SPEED SHUTTER

Press repeatedly to change shutter speed. (See below, left.)



#### 1/500 1/1000 1/2000 1/4000 1/10000

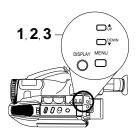
- Provide additional halogen or tungsten light for use indoors or in poor light.
- Fluorescent light degrades picture. Auto Focus may not function properly if high speed shutter is used in inadequate
- Setting reverts to AUTO each time POWER is set to CAMERA.

#### Tally Lamp

#### Tally Lamp

The tally lamp can be set to come on or stay off during recording.

New camcorder's default setting is ON.





(PV-L650 shown)

#### Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.
   Insert cassette with record tab.

Press MENU for MENU mode. Press UP ▲ or DOWN ▼ to select TALLY LAMP.



Press DISPLAY to select:

ON → lamp lights during recording. OFF → lamp stays off.

Press MENU to exit.

#### Digital Zoom

2

**Β 009** φ

Power Zoom magnification is digitally increased.

#### Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.

#### Press <u>DIGITAL ZOOM</u>.

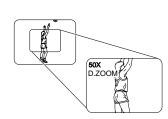
D.ZOOM mode (150X maximum).

Higher digital magnification levels may cause picture distortion.

#### Hold down <u>"T" on POWER ZOOM.</u> Digital Zoom starts when normal zoom reaches maximum (18X).

- Zoom level appears in EVF or LCD
- monitor.
   POWER ZOOM switch controls digital zoom level.
- Normal zoom resumes when level falls to 18X.



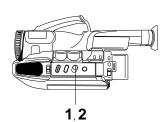


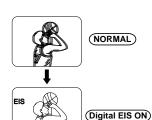
1.3

#### Digital E.I.S.

#### Digital Electronic Image Stabilization (E.I.S.)

Helps stabilize picture when recording in unstable situations.





#### Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.
- - Press EIS to display "EIS" in the EVF or LCD monitor.
    - Image becomes slightly enlarged and shutter speed auto-adjusts from 1/80 to 1/350 according to brightness.
    - Use High Speed Shutter if needed. Shutter speed setting remains after EIS is canceled.
- Press EIS again to cancel when not

#### E.I.S. may not function during... • extreme Camcorder movement.

- recording of subject with distinct horizontal or vertical stripes.
- · low light situations (EIS indicator flashes).
  • intense fluorescent lighting situations.
- recording of very fast motion.

#### **Operation Notes**

#### Attaching Optional Filters and Lenses

When you remove the Lens Hood, pinch the Lens Hood and turn it counterclockwise as illustrated at right.

#### Then attach an optional filter or lens.

- · Be careful not to touch the lens itself.
- Replace the Lens Hood after removing the accessory.



#### Lens Hood Area Operation Caution

With a Wide or Telephoto conversion lens (optional) attached, the four corners of the screen may darken when zoom is set to maximum wide angle.

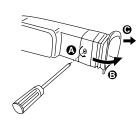
When attaching the lens hood, a Wide or Telephoto conversion lens (optional), etc. after a filter (optional) has been attached, the four corners of the screen may darken when zoom is set to maximum wide angle.

With two filters (optional) attached, the four corners of the screen may darken when zoom is set to maximum wide angle.

#### Cleaning EVF (Electronic Viewfinder)

#### (VM-D100/PV-L550/PV-L600/PV-L650/VM-L450)

To Remove



A Remove the screw with a Phillips screwdriver.

Turn counterclockwise. 1 Turn the EVF Eyepiece.

Pull the EVF Eyepiece.

Remove any lint or dust particles with a soft clean cloth being careful not to scratch the glass surfaces.

Replace the EVF Eyepiece and the

#### 5 SERVICE NOTES (PLEASE READ)

#### 5.1. SERVICE NOTES

#### 5.1.1. EXTENSION CABLES FOR SERVICE

Using the following Extension Cables, place the unit as shown for check and service.

No.	PART NUMBER	PART NAME	CONNECTION
1	VUVS0007	12Pin Extension Cable	FP8 on Main C.B.A. ~ CCD F.P.C. on Lens Unit
2	LSUA0020	20Pin Extension Cable	FP9 on Main C.B.A. ~ Lens F.P.C. on Lens Unit
3	VUVS0015	28Pin Extension Cable	FP1 on Main C.B.A. ~ A/C Head/Capstan F.P.C. on VCR Mechanism Chassis Ass'y
4	VUVS0012	22Pin Extension Cable	FP3 on Main C.B.A. ~ Top Operation F.P.C.

#### NOTE:

- 1. When using the cassette tape:
  - a. Be sure to remove a cassette lid cover of cassette tape.
  - b. Be sure to install the Lock Screw to Cassette Up Unit. After servicing, be sure to remove the Lock Screw.
    - Refer to "How to Hold the Cassette Up Unit in the Down Position without Cassette Cover Installed."
  - c. Select the H. Safety Defeat in SERVICE MODE. Refer to "SERVICE MODE SPECIFICATION."
    - Or, connect a silicon diode on component side of the Main C.B.A. as shown to defeat safety function.
    - (Since Takeup Reel sensor, located on Main C.B.A. does not work when opening Main C.B.A., the mechanism does not work (Reel lock). Therefore, make sure to defeat Safety function.)
- 2. Use extreme care so as not to apply any excessive pressure to the Cylinder/Head Amp F.P.C. After servicing, be sure to place it correctly. Refer to "Cylinder Ass'y" in "MECHANISM SECTION."
- 3. The LCD open/close SW. is for changing between LCD Display or EVF Display. When turning on LCD Display, place some paper or tape, etc. on LCD open/close SW. so that this SW. stays ON.
- 4. Use a grounded ESD wrist strap while disassembling the Lens portion.
- 5. Use extreme care when unplugging or plugging in connectors.

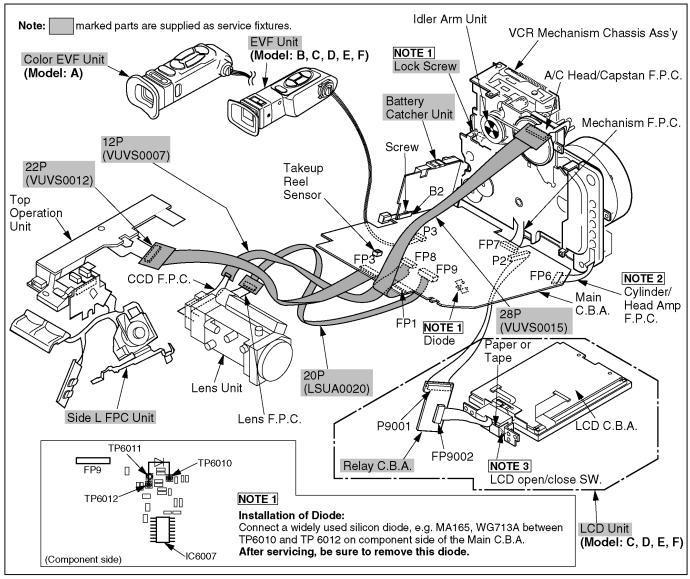


Fig. 1-1

#### 5.1.2. INTERCONNECTION OF EXTENSION CABLES

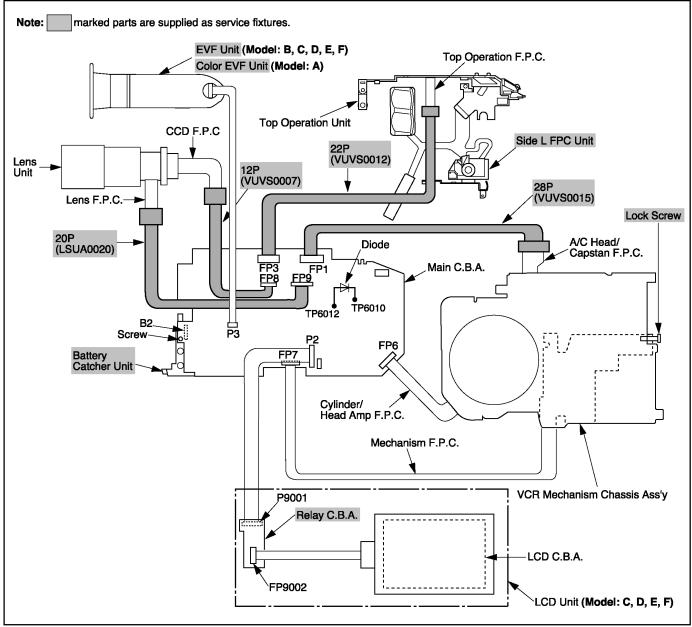


Fig. 1-2

# 5.1.3. HOW TO HOLD THE CASSETTE UPUNIT IN THE DOWN POSITION WITHOUT CASSETTE COVER INSTALLED

The Cassette Up Unit will be in the up position without the Cassette Cover installed.

To hold the Cassette Up Unit in the down position without it, a Lock Screw is needed.



#### 5.1.3.1. How to install the Lock Screw:

1. If the Lock Lever, shown in gray, is set to Position "A" (No hole), change Position "A" (No hole) to Position "B" (Hole) as shown in Fig. 2-2 by pushing Portion (a) as shown in Fig. 2-1.

#### Note:

If the mechanism is in EJECT position, the Lock Lever cannot be changed to Position "B" by pushing Portion (a). In this case, apply the power to set the mechanism to STOP position.

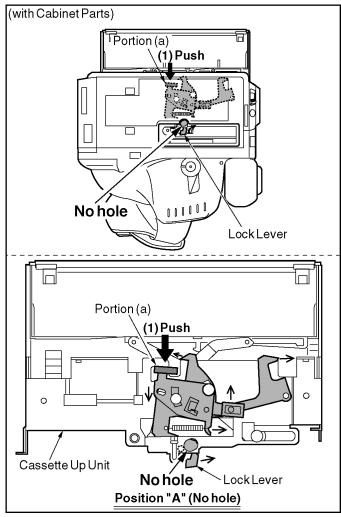


Fig. 2-1

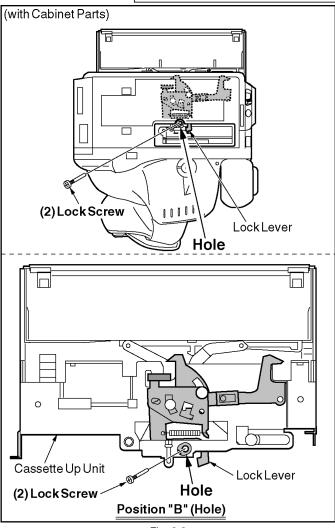


Fig. 2-2

- 2. Install the Lock Screw in the Hole (Threaded Hole for Lock Screw access) in Position "B".
- 3. Hold down the Cassette Up Unit.
- Confirm that Cassette Up Unit will be held in the down Position.

#### 5.1.3.2. Lock Screw is required when:

- 1. performing "Tape Interchangeability Adjustment."
- servicing with cassette tape in Service Position. The procedure below is required when the unit is in safety defeat mode.
  - a. Confirm that the Lock Lever, shown in gray, is set to Position "A" as shown in Fig. 2-1, and that the mechanism is in the STOP position.
  - b. Insert the cassette tape.
  - c. Push Portion (a) as shown in Fig. 2-1 while keeping the Cassette Up Unit in the down position so the mechanism starts loading. (Cassette Down Switch is ON.)

#### - CAUTION: -

- 1. After servicing, be sure to remove the Lock Screw.
- 2. The replacement Cassette Up Unit and VCR Mechanism Chassis Ass'y are supplied with a Lock Screw installed. Make sure to remove this Lock Screw when replacing them.

#### 5.1.4. SERVICE MODE SPECIFICATION (SELF-DIAGNOSTIC SYSTEM)

#### Operation:

- 1. Start-up: Press and hold all of the **Display**, **REC**, and **Stop** buttons over 2 seconds, the unit goes into the self-diagnostic mode and main menu appears.
- 2. Mode Selection: Press display button to change and select self-diagnose mode.
- 3. Close: Turn off the Power Switch.

#### Display:

1. Following descriptions can be displayed on EVF and TV monitor at the same time.

1. Main Menu

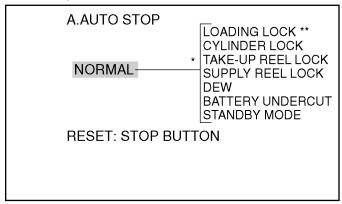
SERVICE MODE

START: DISPLAY BUTTON QUIT : POWER OFF

Press and hold all of the Display, REC and Stop buttons over 2 seconds. The Main Menu appears on E.V.F. and TV monitor.



#### 2. Auto Stop



When the unit suddenly shuts off, It is possible to see the cause description in this menu. Even if the AC adaptor or battery is disconnected, the most recent failure will be memorized. Pressing the Stop button at this time will reset the memory.

\* Cause descriptions can be displayed until power shuts off.

\*\* LOADING LOCK --- EJECT STOP

STBY

REC / PB

(When it is possible to detect the lock position, loading lock position can be displayed.)



3. Auto Test

**B.AUTO TEST** 

SET VCR/CAMERA SW TO CAMERA

- 1. CASSETTE TAPE IN
- 2. PRESS REC BUTTON
- a. Cassette tape in and Press REC button.
- b. The unit operates automatically on tests.



#### **B.AUTO TEST**

- **■** REC
- □ REVIEW
- □ PLAY
- □ REC PAUSE
- a. Automatically operates REC (30sec), REW, PLAY, and STOP
- b. Displays the test status while auto test is progressing.
  - ( Mark shows the test status.)



# B.AUTO TEST NORMAL

Displays the test result.

LOADING LOCK \*\*
CYLINDER LOCK

\* TAKE-UP REEL LOCK
SUPPLY REEL LOCK
DEW
BATTERY UNDERCUT
STANDBY MODE

\* Cause descriptions can be displayed until power shuts off.

\*\* LOADING LOCK --- EJECT STOP STBY REC / PB

(When it is possible to detect the lock position, loading lock position can be displayed.)



#### 4. Motor Control Signal Check

#### **C.SIGNAL TEST**

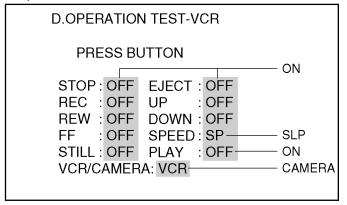
CAPSTAN(M) : STOP-FWD, REV OFF CYLINDER(M) : ON-: STOP--FWD, REV LOADING(M) ZOOM(M) : STOP-WIDE, TELE STOP-FAR, NEAR FOCUS(M) -NO.\* IRIS(F NO.) 01-CASSETTE SW : DOWN-UP SAFETY TAB SW: OK--BRK

Displays all of motor drive signals and switch inputs from mechanism chassis.

\* Iris No. display



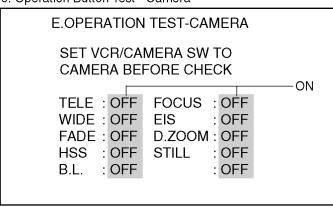
#### 5. Operation Button Test - VCR



Tests connection of VCR operation buttons by pressing each button.

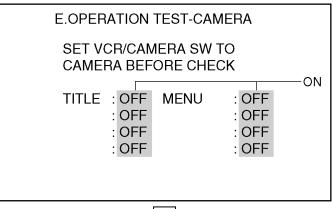


#### 6. Operation Button Test - Camera



Tests connection of camera operation buttons by pressing each button.







7. Loading Test

F.LOADING TEST

SET VCR/CAMERA SW TO VCR

START: REC BUTTON QUIT : STOP BUTTON

Repeats loading / unloading 10 times without tape to check loading mechanism.



8. Mechanism Position

#### **G.MECHANISM POSITION**

- EJECT
- ☐ STOP STANDBY
- □ STANDBY
- □ REC/PLAY/FF

Displays mechanism position by monitoring mode switch. (■ mark shows the current mechanism position.)



9. Safety Defeat

H.SAFETY DEFEAT

SET VCR/CAMERA SW TO VCR

- 1.CLOSE CASSETTE DOOR WITHOUT TAPE
- 2.PRESS OPERATION BUTTONS
- a. Defeats following safety functions. Cylinder lock, Reel lock, End of tape, Battery under cut, Safety tab switch.
- b. It is possible to check mechanism movement without tape by pressing operation buttons in this mode.

Another Method to put the unit into Safety Defeat mode: Connect a silicon diode between TP6010 and TP6012 on component side of the Main C.B.A.
Refer to "EXTENSION CABLES FOR SERVICE" in "SERVICE NOTES"



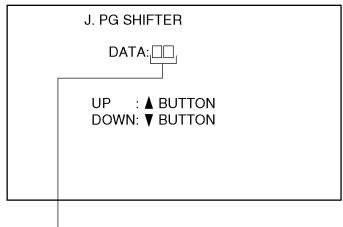
10. Tracking Fix

I. TRACKING FIX

Functions to fix tracking position to its center for tape path alignment.



#### 11. PG Shifter



Displays the adjustment data.

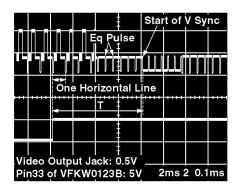
This is a function to adjust Head Switching Position (PG SHIFTER) by pressing UP ▲ or Down ▼ button without using the Personal Computer.

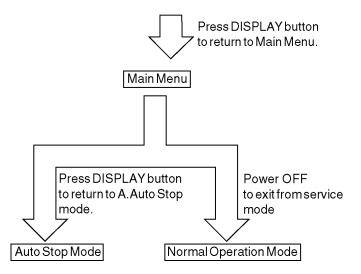
To adjust with this function, the TP Board Kit, Audio/Video cable, oscilloscope, and VHS-C Alignment Tape (VFMS0004H6C) are necessary.

For connecting TP Board Kit, refer to "PREPARATION" in ELECTRICAL ADJUSTMENT.

Adjustment procedure

Press UP ▲ or Down ▼ button while playing back the VHS-C Alignment Tape so that T is 6.5 H±0.5 H (approx. 0.4 msec)





#### 5.1.5. DESCRIPTION OF EMERGENCY INDICATIONS

When something unusual as shown below occurs in the deck, LED begins flashing for approx. 15 seconds to indicate an Emergency.

No.	Information	POWER LED	TALLY LED	Cause and Characteristic
1	Cylinder Lock		•	CYLINDER Motor stops in the REC, PB, CUE, REVIEW or STILL MODE for 2 second.
2	Takeup-Reel Lock	•		There is no TAKEUP REEL sensor pulse for 2.3 seconds (PLAY, REC) or 0.7 second (CUE, REVIEW, FF, REW).
3	Battery Under Cut or DEW	•		When the Battery voltage drops to 5.3 V. Or excessive moisture condenses in the Unit.

#### NOTE:

①: Indicates LED Flashing at 3 Hz rate (duty 50%)

: Indicates LED Flashing at 0.8 Hz rate (duty 50%)

■: Indicates LED Flashing at 1 Hz rate (duty 50%)

# 5.1.6. METHOD FOR LOADING/UNLOADING OF MECHANISM

#### 5.1.6.1. (Electrical Method)

#### **CAUTION:**

If loading does not start after DC Power Supply is applied, DO NOT continue to applying DC Power Supply.

Connect the TP Board Kit as shown, and apply 3VDC Power Supply (DC+ to TP21, DC- to TP20 for loading or DC+ to TP20, DC- to TP21 for unloading). Refer to "HOW TO USE TP BOARD KIT."

It normally takes approx. 6 seconds to unload the Mechanism from fully-loaded position to EJECT position.

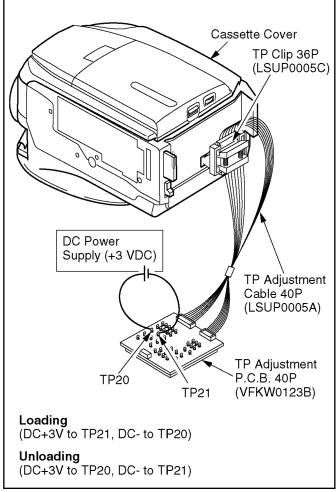


Fig. 3-1

# 5.1.6.2. (Manual Method) without Cabinet Parts

Turn the Gear of Reduction Gear Unit clockwise (for loading) or counterclockwise (for unloading) manually.

It is necessary to rotate approx. 80 times from fully-loaded position to EJECT position.

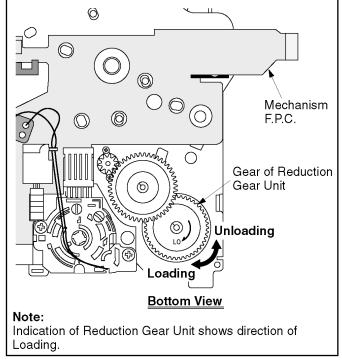


Fig. 3-2

## 5.1.7. HOW TO REMOVE A JAMMED TAPE

#### **CAUTION:**

If loading does not start after DC Power Supply is applied, DO NOT continue applying DC Power Supply.

## 5.1.7.1. Remove a jammed tape as follows:

1. Remove a Screw and remove the EVR Cover.

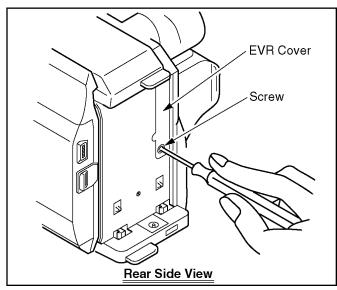


Fig. 4-1

- 2. Place the unit with the Cassette Cover facing upward.
- 3. Connect the TP Board Kit through the TP Board slot.
- 4. Apply +3VDC Power Supply to TP20 (+) and TP21 (-) on the TP Board to unload the mechanism. It normally takes approx. 6 seconds to unload the Mechanism to EJECT position. Then, remove the Power Supply and remove the TP Board Kit.

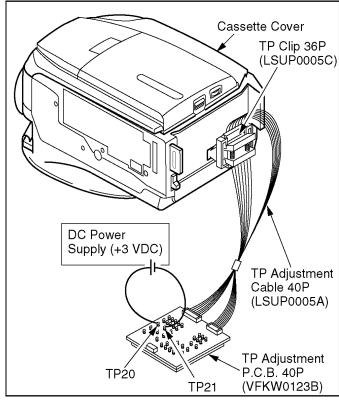


Fig. 4-2

- 5. Open the Cassette Cover fully.
- 6. Remove the tape slack by rotating the Takeup Reel Gear of the cassette tape as shown in Fig. 4-3.

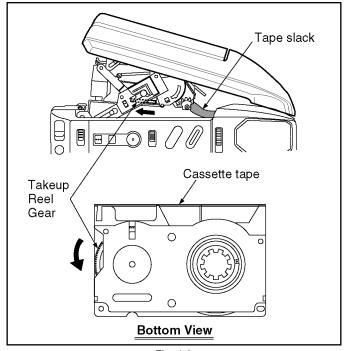


Fig. 4-3

- 7. Take out the cassette tape.
- 8. Connect the Power or Battery to set the Mechanism to STOP Position.

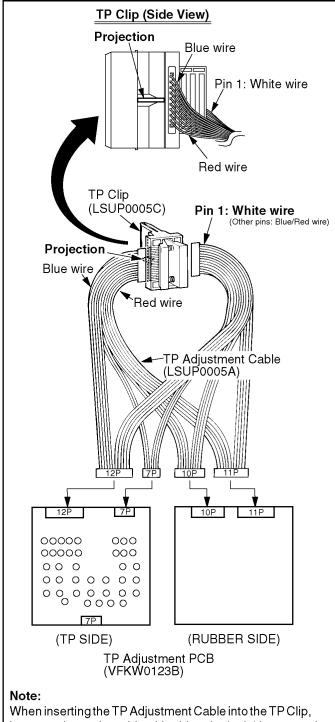
#### 5.1.8. HOW TO USE TP BOARD KIT

#### 5.1.8.1. TP Board Kit is required when:

- 1. performing "Tape Interchangeability Adjustment."
- 2. performing "EVR Adjustment."
- 3. the cassette tape is jammed. Refer to "HOW TO REMOVE A JAMMED TAPE."
- 4. loading or unloading the Mechanism (Electrical Method).

#### 5.1.8.2. How to assemble TP Board Kit:

1. Assemble the TP Board Kit as shown.



When inserting the TP Adjustment Cable into the TP Clip, be sure to insert the cable with white wire (1pin) into opposite side of the TP Clip Projection as shown.

Fig. 5-1

# 5.1.8.3. How to install TP Board Kit to Camcorder:

1. Install the TP Board Kit to Camcorder as shown.

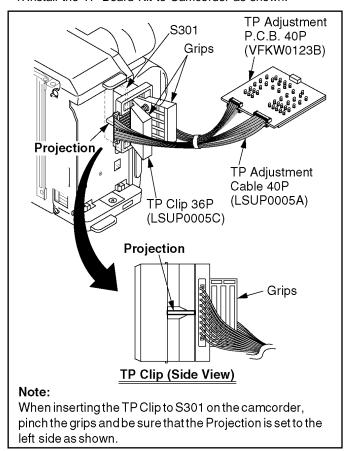


Fig. 5-2

# 5.1.8.4. Signal description on TP Adjustment P.C.B. 40P (VFKW0123B)

	,	
Pin No.	Signal	
1	GND	
2	IRIS	
3	GND	
4	(Not used)	
5	(Not used)	
6	EVR MODE	
7	CAM +4.5V	
8	EVR SERIAL DATA 1	
9	V-SYNC	
10	EVR SERIAL DATA 0	
11	CAMERA RESET (L)	
12	NC	
13	EVR SERIAL CLOCK	
14	NC	
15	(Not used)	
16	NC	
17	NC	
18	LUMINANCE	
19	NC	
20	LOADING MOTOR 0	
21	LOADING MOTOR 1	
22	SUPPLY REEL PULSE	
23	(Not used)	
24	SAFETY TAB BROKEN (L)	
25	PB CTL PULSE	
26	SUPPLY PHOTO TR (L)	
27	CAP FG	
28	(Not used)	
29	H-SYNC	
30	PB LUMINANCE	
31	YNR	
32	ENVELOPE	
33	HEAD SW	
34	(Not used)	
35	GND	
36	36 GND	
37	REC CHROMINANCE	
38	REC LUMINANCE	
39	(Not used)	
40	(Not used)	

#### 5.1.9. EEPROM DATA

#### **CAUTION:**

Be sure to save the EEPROM data using PC-EVR Program before service and adjustment in order to make sure to avoid an accidental data loss, etc. as follows.

#### **EEPROM IC**

C.B.A.	EEPROM IC Ref. No.
Main C.B.A.	IC306

# 5.1.9.1. How to save the EEPROM data to your PC

- 1. Start up the PC-EVR Program.
- Select "1. Read (Save)/Write All EEPROM datas." in Main menu, and then press "Enter" key.
- 3. Select "1. Save all data of EEPROM" in Read (Save)/Write All EEPROM datas menu, and then press "Enter" key.
- 4. Input the File name, and then press "Enter" key. The data of EEPROM IC will be stored to your PC.

# 5.1.9.2. How to write the EEPROM data which was stored in your PC to EEPROM IC

When it becomes impossible to adjust during service and adjustment, write the EEPROM data which was stored in your PC to EEPROM IC as follows. And readjust the camcorder.

- 1. Start up the PC-EVR Program.
- 2. Select "1. Read (Save)/Write All EEPROM datas." in Main menu, and then press "Enter" key.
- 3. Select "2. Data write using stored file" in Read (Save)/Write All EEPROM datas menu, and then press "Enter" key.
- 4. Input the saved file name, and then press "Enter" key. The data will be written in EEPROM IC.

#### 5.1.9.3. How to initialize the EEPROM IC

When the EEPROM IC (IC306) or Main C.B.A. is replaced, be sure to write the initial data to EEPROM IC. And adjust the camcorder.

- 1. Start up the PC-EVR Program.
- Select "1. Read (Save)/Write All EEPROM datas." in Main menu, and then press "Enter" key.
- 3. Select "3. Data write with initial data" in Read (Save)/Write All EEPROM datas menu, and then press "Enter" key. And press "Enter" key once again. The initial data will be written in EEPROM IC.

# 5.1.10. HOW TO ACCESS THE MANUAL TRACKING CONTROL

Press the UP▲ (Tracking Up) or Down▼ (Tracking Down) button to perform the Manual Tracking Adjustment in Playback Mode.

# 5.1.11. CONNECTION OF THE FLEXIBLE CABLES TO TRAP CONNECTORS

Plug No.	No. of Pins	C.B.A.
FP1	28 Pin	Main C.B.A.
FP3	22 Pin	Main C.B.A.
FP4	6 Pin	Main C.B.A.
FP6	39 Pin	Main C.B.A.
FP7	14 Pin	Main C.B.A.
FP8	12 Pin	Main C.B.A.
FP9	20 Pin	Main C.B.A.
FP11	13 Pin	Main C.B.A.
FP901	6 Pin	EVF C.B.A. (Model: B, C, D, E, F)
FP901	6 Pin	Color EVF A C.B.A. (Model: A)
FP902	16 Pin	Color EVF A C.B.A. (Model: A)
FP1201	21 Pin	LCD C.B.A. (Model: C, D, E, F)
FP1202	5 Pin	LCD C.B.A. (Model: C, D, E, F)
FP3501	12 Pin	Head Amp C.B.A.
FP9001	24 Pin	LCD C.B.A. (Model: C, D, E, F)
FP9002	18 Pin	Relay C.B.A. (Model: C, D, E, F)

#### 5.1.12. REPLACEMENT PROCEDURE FOR LEADLESS (CHIP) COMPONENT

The following procedures are recommended for the replacement of the leadless components used in this Unit.

- 1. Preparation for replacement
  - a. Soldering Iron

Use a pencil-type soldering iron using less than 30 watts.

b. Solder

Eutectic Solder (Tin 63%, Lead 37%) is recommended.

c. Soldering time

Do not apply heat for more than 4 seconds.

d. Preheating

Leadless capacitor must be preheated before installation.

(130°C ~ 150°C, for about 2 minutes.)

#### Note:

- a. Leadless component must not be reused after removal.
- b. Excessive mechanical stress and rubbing of the component electrode must be avoided.
- 2. Removing the leadless component

Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes is melted, remove leadless component with a twisting motion.

#### Note:

- a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twisting action. The leadless component is attached to the PCB with glue. So carefully twist the component when removing it so as not to break or damage any fail under the component.
- b. Take care not to break the copper foil on the printed board.

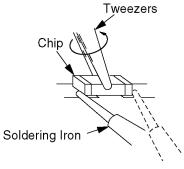


Fig. 6-1

- 3. Installation of the leadless component
  - a. Presolder the contact points of the circuit board.

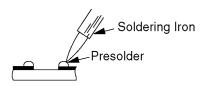


Fig. 6-2

 b. Press the part downward with tweezers and solder both electrodes as shown below.

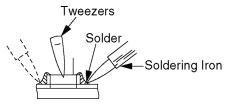


Fig. 6-3

#### Note:

Do not glue the replacement leadless component to the circuit board.

#### 5.1.13. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handlings techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

# 5.1.14. MODEL NO. IDENTIFICATION MARK

Use Marks shown in the chart below to distinguish the different models included in this Service Manual.

MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F
NOT USED	Z

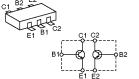
#### Note:

Refer to Item 3 of Schematic Diagram Notes of Schematic Diagram and Circuit Board Layout Notes, for Mark "Z."

#### 5.2. IC, TRANSISTOR AND CHIP PART INFORMATION

#### MAIN C.B.A.







CCD C.B.A.



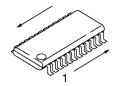
S80839ANNPT2, R311Q391ATR, XC61CN3902NR

XN4601, IMZ1T108 XC62FP4502PR

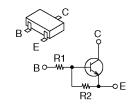
MN371132FT-M

TA75S558F85L

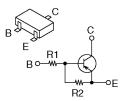
#### **GENERAL C.B.A. / ASS'Y PARTS**



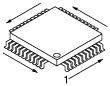
AN2515NS, AN3365SB-E1, BA10324AFVE1, BR9040FV-DE2, BA6288FS-E2, MN3112SA-E1, MN38663S, S3510AEFJTB, LB1837MLTEL3, LB1837MTEL3, LB1837M-TE-L, LM324DB, UN224-TX



UN5212(R1=22K, R2=22K), UN5217(R1=22K, R2=OPEN), DTC124EU(R1=22K, R2=22K), DTC124TU(R1=22K, R2=OPEN),



UN5111(R1=10K, R2=10K), UN5112(R1=22K, R2=22K), UN5113(R1=47K, R2=47K), UN5115(R1=10K, R2=OPEN), DTA124EU(R1=22K, R2=22K), DTA144EU(R1=, R2=), DTA114EU(R1=10K, R2=10K) DTA114TU UN5114



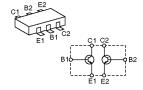
AN2109NFHQ, AN2401NFH, AN2536FHQ, AN2545FHQ, AN3897FH, BA7757BK, MN67324, MN5293-1, MN101D02FWD1, MN102L62FCA



2SA1037K146R, 2SA1576A106R, 2SB1424T100Q, 2SB1424T100P, 2SB1585, 2SB1218A, 2SB970, 2SB709A, 2SC3931, 2SC2412K1, 2SC4081T106R, 2SD1819A, 2SD602, 2SD601A, 2SD2432, 2SD602A, 2SK1958, 2SK1299STL



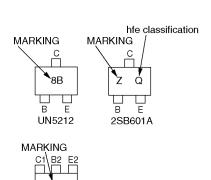
2SB1073, 2SD1119, 2SD968A, RH5RE45AA-T1 2SB1386T100Q, 2SB1386T100R, 2SD2150T100R, 2SB1628-T1ZX, 2SB1628-T1ZY



XN4501, IMX1T108

## HOW TO READ THE IDENTIFICATION MARK OF CHIP COMPONENTS.

MARKING	PART NO.	MARKING	PART NO.
В	2SB1218A	8B	UN5212
В	2SB709A	1R	2SB1585
В	2SC4081T106R	8H	UN5217
С	DTA144EU	5H	XN4501
F	2SA1037K146R	5C	XN4601
Т	2SD1119	6B	UN5112
I	2SB1073	8HR	DTC124TU
U	2SC3931	MC	MA143
Z	2SD601A	2A	MA728
Z	2SD1819A	1B	MA111
AEPJ	2SB1424T100Q	12H	MA3120WA
ZX	2SB1628	МО	MA142WA
ZY	2SB1628	MU	MA142WK
1R	2SB970		
V	2SD968A		
W	2SD602		
G	2SK1958		
6A	UN5111		
6C	UN5113		
6E	UN5115		



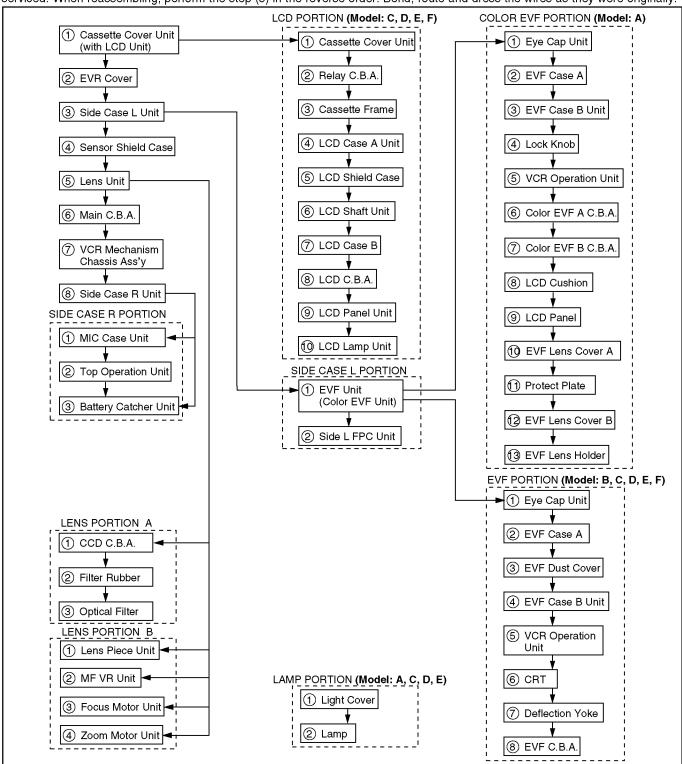
XN4601

#### 6 DISASSEMBLY/ASSEMBLY PROCEDURES

#### 6.1. CABINET SECTION

#### 6.1.1. Disassembly Flowchart

This flow chart indicates the disassembly steps of the cabinet parts and the P.C.Boards in order to gain access to item (s) to be serviced. When reassembling, perform the step (s) in the reverse order. Bend, route and dress the wires as they were originally.



Fia. D1

Note: a. When removing the cabinet, work with care so as not to break the Locking Tabs.

- b. Place a cloth or some other soft material under the P.C. Boards or Unit to prevent damage.
- c. When reinstalling, ensure that the connectors are connected and electrical components have not been damaged.
- d. Do not supply power to the unit during disassembly and reassembly.

#### 6.1.2. Main Parts Portion

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Cassette Cover Unit with LCD Unit	D2	2(L-1), (L-2), P9001
2	EVR Cover	DЗ	(S-1)
3	Side Case L Unit	D3	(S-2), (S-3), 3(S-4), (S-5), 2(S-6), Top Operation receptacle, P3, P38
4	Sensor Shield Case	D4	(S-7)
(5)	Lens Unit	D4	2(S-8), (L-3), FP4, FP8, FP9
6	Main C.B.A.	D5	2(S-9), (S-10), FP1, FP3, FP6, FP7, FP11, B2, P2, P13
7	VCR Mechanism Chassis Ass'y	D6	2(S-11), 2(S-12)
8	Side Case R Unit	D6	
† A	↑ B	C	∱ D

#### How to read chart shown above:

A: Order of Procedure steps.

When reassembling, perform steps(s) in reverse order. These numbers are also used as the identification (location) No. of parts in Figures.

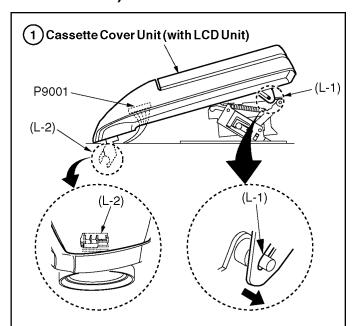
B: Part to be removed or installed.

C: Fig. No. showing Procedure or Part Location.

D: Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or unsoldered.

3(S-1) = 3 Screws (S-1), 2(L-1) = 2 Looking Tabs (L-1)

# 6.1.2.1. Cassette Cover Unit (with LCD Unit)



#### Note:

To open the Cassette Cover, place the unit with the Cassette Cover facing upward. And then, slide the EJECT button with the power ON, or remove the EVR Cover and slide the Lock Lever through TP Board slot.

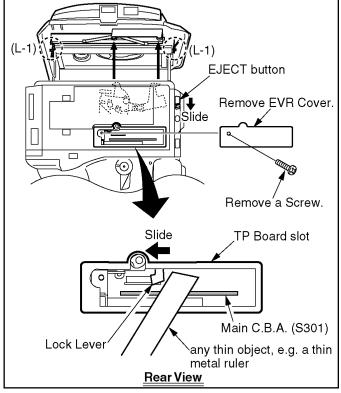


Fig. D2

#### 6.1.2.2. EVR Cover, Side Case L Unit

# 2 EVR Cover (S-1). VCR/Camera SW. **Rear View** Top Operation receptacle Р3-**EVF** Connector<sup>2</sup> (3) Side Case L Unit (S-3) (S-4) **Bottom View** (S-5)(S-6)-Side View **Reassembly Note:**

- (1) Before installing the Side Case L Unit, set the VCR / Camera SW. to Camera mode.
- (2) Connect the EVF Connector to the Connector P3 on the Main C.B.A.
- (3) Install the Side Case L Unit, then tighten Screws.

Fig. D3

#### 6.1.2.3. Sensor Shield Case, Lens Unit

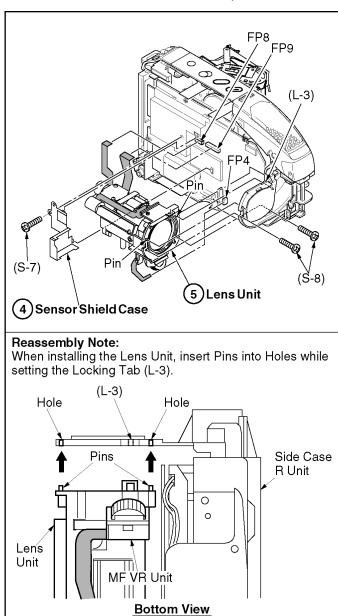


Fig. D4

#### 6.1.2.4. Main C.B.A.

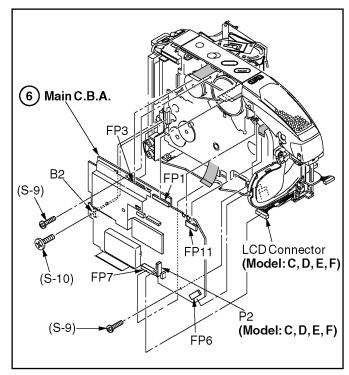
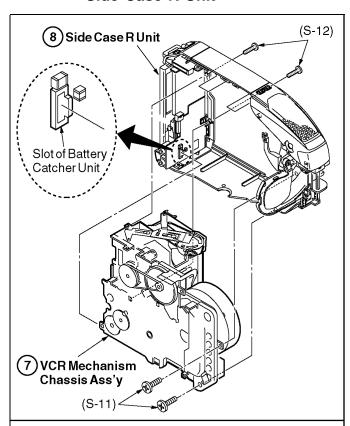


Fig. D5

## 6.1.2.5. VCR Mechanism Chassis Ass'y, Side Case R Unit



#### **Reassembly Note:**

The VCR Mechanism Chassis Ass'y is supplied with a Lock Screw installed. Make sure to remove the Lock Screw from Cassette Up Unit when replacing the VCR Mechanism Chassis Ass'y.

Fig. D6

#### 6.1.3. LCD PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Cassette Cover Unit	D7-1	3(S-1), Barrier
2	Relay C.B.A.	D7-2	(S-2), FP9002
3	Cassette Frame	D7-2	2(S-3)
4	LCD Case A Unit	D7-3	2(S-4), 7(L-1)
5	LCD Shield Case	D7-4	2(S-5)
6	LCD Shaft Unit	D7-4	FP1201
7	LCD Case B	D7-4	2(S-6)
8	LCD C.B.A.	D7-5	FP9001, Unsolder
9	LCD Panel Unit	D7-5	8(L-2)
10	LCD Lamp Unit	D7-6	3(L-3), LCD Sheet Unit

#### 6.1.3.1. Cassette Cover Unit

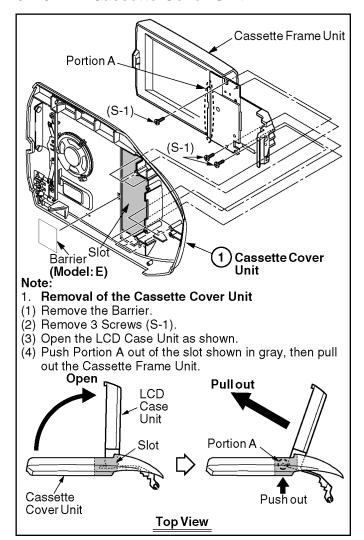
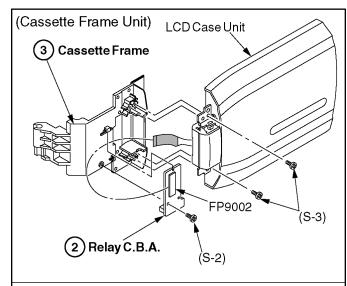


Fig. D7-1

#### 6.1.3.2. Relay C.B.A., Cassette Frame



#### Reassembly Note:

When installing the Relay C.B.A. and the Cassette Frame, connect the LCD F.P.C. to Connector FP9002 on Relay C.B.A. as shown.

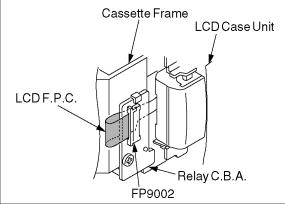


Fig. D7-2

#### 6.1.3.3. LCD Case Ass'y

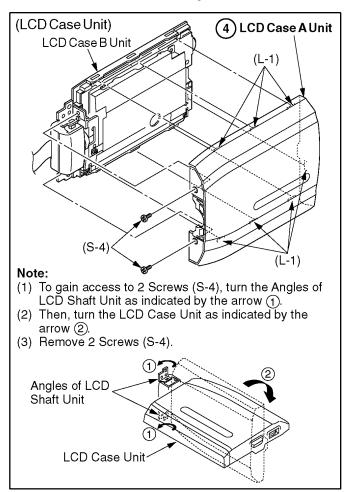


Fig. D7-3

# 6.1.3.4. LCD Shield Case, LCD Shaft Unit, LCD Case B

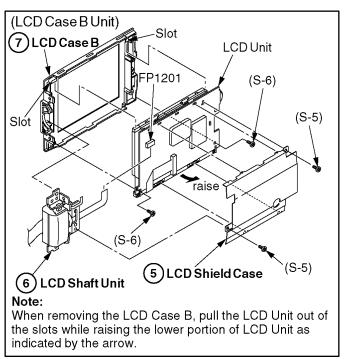
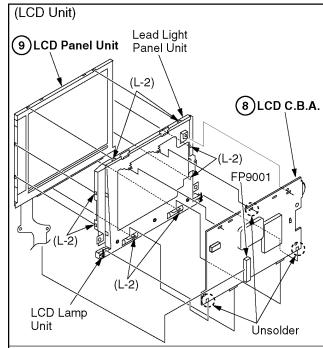


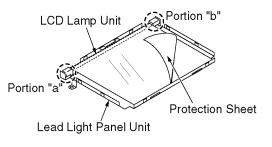
Fig. D7-4

#### 6.1.3.5. LCD C.B.A., LCD Panel Unit



#### **Reassembly Note:**

- (1) When replacing the Lead Light Panel Unit, make sure to remove Protection Sheet as shown below.
- (2) Use extreme care when handling the Lead Light Panel Unit and the LCD Panel Unit to avoid damage, dust, and spots (especially fingerprints, etc.). The use of clean cotton gloves when available is highly recommended.
- (3) Be careful not to apply any pressure to Portion "a" and "b" of the LCD Lamp Unit as shown below.



(4) After replacing the Lead Light Panel Unit, confirm that the Terminal of LCD Lamp Unit is soldered correctly as shown below.

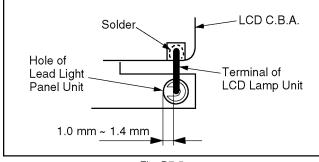
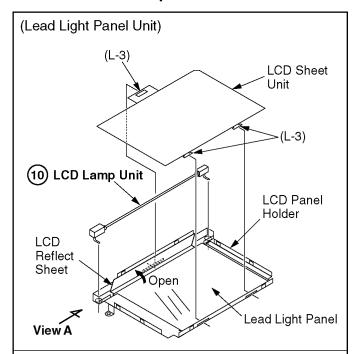


Fig. D7-5

#### 6.1.3.6. LCD Lamp Unit



#### Reassembly Note:

- (1) When installing the LCD Lamp Unit, confirm that the LCD Lamp Unit is positioned as shown below.
- (2) Use extreme care when handling the Lead Light Panel and the LCD Sheet Unit to avoid damage, dust, and spots (especially fingerprints, etc.).

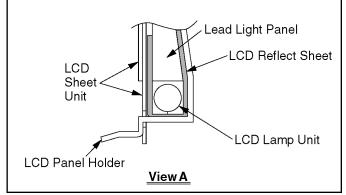
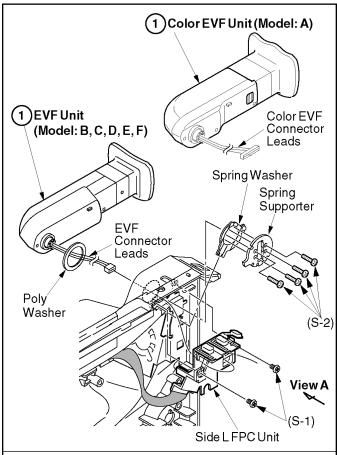


Fig. D7-6

#### SIDE CASE L PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	EVF Unit (Color EVF Unit)	D8-1	2(S-1), 4(S-2), Spring Supporter, Spring Washer, Poly Washer
2	Side L FPC Unit	D8-2	(S-3), 3(S-4), 2(L-1), Arm, Arm Holder

#### 6.1.4.1. **EVF Unit (Color EVF Unit)**

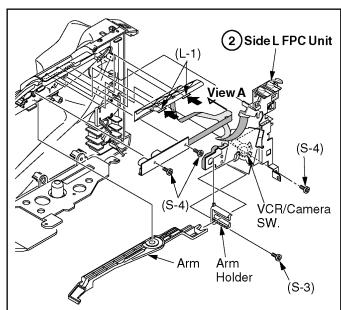


#### Reassembly Note:

After installing, confirm that EVF or Color EVF Connector Leads are set correctly on the Side L FPC Unit as shown. Pass through Pass through **Hooking Portion** Side LFPC Unit EVF or Color EVF Connector Leads Pass through

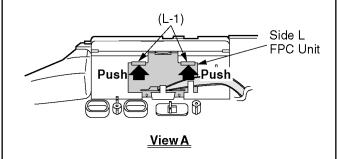
View A Fig. D8-1

#### Side L FPC Unit 6.1.4.2.



#### Note:

- 1. Removal of the Side L FPC Unit
- (1) Remove the Arm first.
- (2) Remove Screw (S-3). Then, remove the Arm Holder. (3) Remove 3 Screws (S-4).
- (4) Remove the Side L FPC Unit after releasing 2 Locking Tabs (L-1) by pushing as indicated by the arrow.



#### Reassembly Note:

When installing the Side L FPC Unit, set the VCR/Camera SW. to Camera mode.

Fig. D8-2

# 6.1.5. EVF PORTION (Model: B, C, D, E, F)

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Eye Cap Unit	D9-1	(S-1), (L-1)
2	EVF Case A	D9-2	2(S-2), 5(L-2)
3	EVF Dust Cover	D9-2	
4	EVF Case B Unit	D9-2	
5	VCR Operation Unit	D9-3	FP901
6	CRT	D9-3	CRT Socket Unit
7	Deflection Yoke	D9-3	P903
8	EVF C.B.A.	D9-3	

#### Note:

When disassembling or reassembling, make sure that no dust gets in  $\ensuremath{\mathsf{EVF}}$  Unit.

#### **6.1.5.1.** Eye Cap Unit

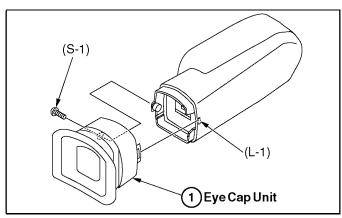


Fig. D9-1

# 6.1.5.2. EVF Case A, EVF Dust Cover, EVF Case Unit

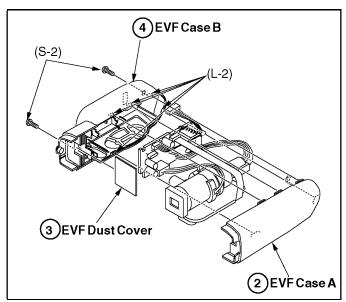


Fig. D9-2

# 6.1.5.3. VCR Operation Unit, CRT, Deflection Yoke, EVF C.B.A.

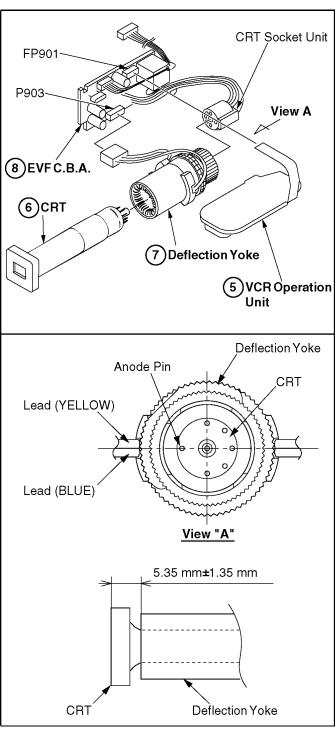


Fig. D9-3

#### 6.1.6. COLOR EVF PORTION (Model: A)

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Eye Cap Unit	D10-1	
(D)	EVF Case A	D10-2	2(S-1), 6(L-1)
3	EVF Case B Unit	D10-2	
4	Lock Knob	D10-2	Lock Spring
5	VCR Operation Unit	D10-2	FP901
(e)	Color EVF A C.B.A.	D10-3	FP902, B902
7	Color EVF B C.B.A.	D10-3	4(L-2)
8	LCD Cushion	D10-3	
0	LCD Panel	D10-3	
120	EVF Lens Cover A	D10-3	2(L-3)
(E)	Protect Plate	D10-3	
12	EVF Lens Cover B	D10-3	
13	EVF Lens Holder	D10-3	

#### Note:

When disassembling or reassembling, make sure that no dust gets in Color EVF Unit.

#### 6.1.6.1. EVR Cover, Side Csae L Unit

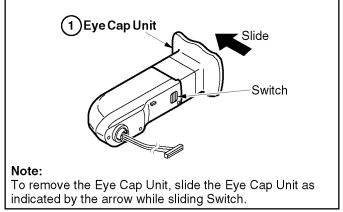


Fig. D10-1

# 6.1.6.2. EVF Case A, EVF Case B Unit, Lock Knob, VCR Operation Unit

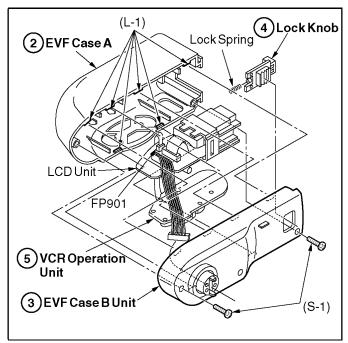


Fig. D10-2

# 6.1.6.3. Color EVF A C.B.A., Color EVF B C.B.A., LCD Cushion, LCD Panel, Protect Plate, EVF Lens Cover B, EVF Lens Holder

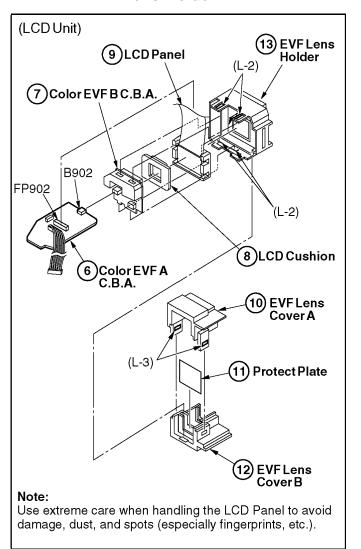
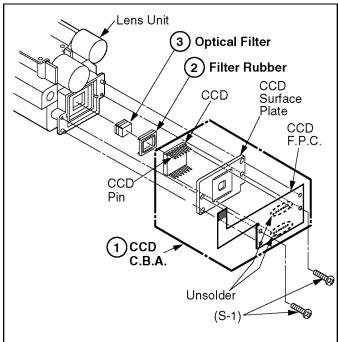


Fig. D10-3

#### 6.1.7. LENS PORTION A

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	CCD C.B.A.	D11-1	2(S-1)
2	Filter Rubber	D11-1	
3	Optical Filter	D11-1	

# 6.1.7.1. CCD C.B.A., Filter Rubber, Optical Filter



#### Note:

#### 1. Removal of the CCD and the CCD Surface Plate

- (1) Unsolder the CCD Pins on the CCD F.P.C.
- (2) Remove the CCD and the CCD Surface Plate from the CCD F.P.C.

#### **CAUTION:**

- (1) When removing the CCD C.B.A., take care so that the Optical Filter does not fall out.
- (2) Take extreme care when removing the CCD because it is easily damaged by static electricity.

  Use a Wrist Strap while removing and installing.
- (3) Do not apply heat to the CCD directly when soldering. Keep soldering time to a minimum to prevent damage to the CCD.
- (4) Do not touch the CCD window surface when servicing.

Fig. D11-1

#### Reassembly Note:

#### 1. Installation of the Optical Filter

(1) Install the Optical Filter in the Lens Unit correctly.

Be sure to install the Optical Filter with the thinnest layer of the Optical Filter facing toward the Lens Unit. Make sure that no dust gets on the Optical Filter and in the Lens Unit. Clean the Optical Filter with lens cleaning paper dampened with lens cleaner if necessary.

#### 2 Installation of the Filter Rubber

(1) Install the Filter Rubber on the Optical Filter with the ridge side facing toward the Optical Filter.

Make sure that no dust gets on the Filter Rubber.

#### 3. Installation of the CCD C.B.A.

- (1) Place the CCD Surface Plate so that Holes (A) are aligned with Holes (B) on the CCD F.P.C.
- (2) Carefully install the CCD onto the CCD F.P.C. by soldering.

#### Note:

Do not apply heat to the CCD directly when soldering. Keep soldering time to a minimum to prevent damage to the CCD.

Install the CCD and CCD Surface Plate so that there are no gaps between them.

When installing, do not touch the CCD window surface and make sure that no dust gets on the CCD. Clean the CCD window surface with lens cleaning paper dampened with lens cleaner if necessary.

(3) Install the CCD C.B.A. to the Lens Unit. Then, secure 2 Screws (S-1) while keeping the CCD C.B.A. pressed toward the upper right corner.

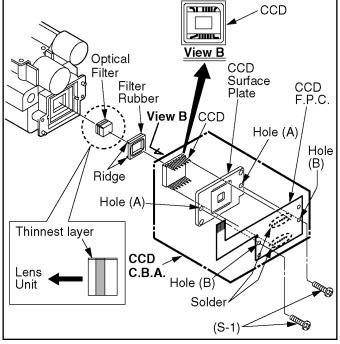


Fig. D11-2

#### 6.1.8. LENS PORTION B

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Lens Piece Unit	D12-1	2(S-1), 2(L-1)
2	MF VR Unit	D12-1	(S-2)
3	Focus Motor Unit	D12-2	2(S-3), Unsolder
4	Zoom Motor Unit	D12-2	(S-4), 2(S-5), Unsolder

#### 6.1.8.1. Lens Piece Unit, MF VR Unit

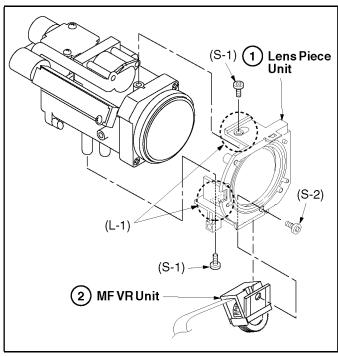
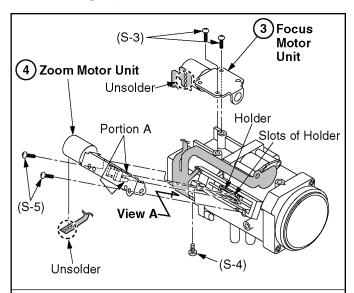


Fig. D12-1

# 6.1.8.2. Focus Motor Unit, Zoom Motor Unit



#### Reassembly Note:

When installing the Zoom Motor Unit, install so that the Portion A of Zoom Motor Unit is inserted to Slots of Holder by sliding the Holder.

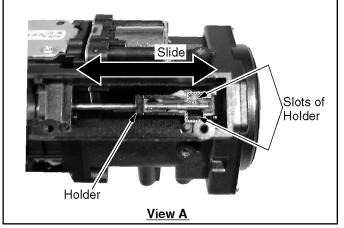


Fig. D12-2

#### 6.1.9. SIDE CASE R PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	MIC Case Unit	D13-1	2(S-1), (L-1), 2(L-2), R Hinge
2	Top Operation Unit	D13-2	(S-2), (L-3)
3	Battery Catcher Unit	D13-3	(S-3), Buckup Cover, Battery

#### 6.1.9.1. **MIC Case Unit**

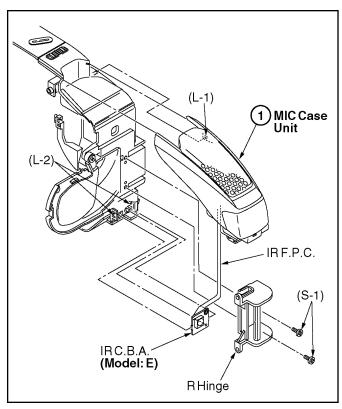
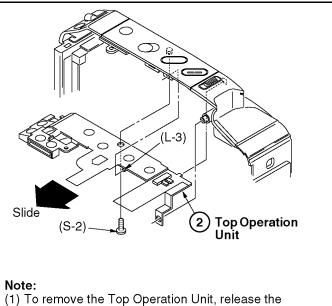


Fig. D13-1

#### 6.1.9.2. **Top Operation Unit**

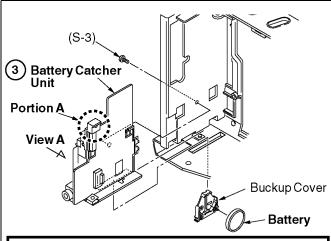


- Locking Tab (L-3).

  (2) Remove the Top Operation Unit while sliding it as indicated by the arrow.

Fig. D13-2

# 6.1.9.3. Battery Catcher Unit



#### **WARNING:**

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

#### **CAUTION:**

Be careful not to break Portion A when removing or installing the Battery Catcher Unit.

#### Note:

- (1) To remove the Battery Catcher Unit, first remove the Backup Cover with the Battery.
- (2) Remove Screw (S-3).
- (3) Slide the Battery Catcher Unit out by pushing Portion B and C as indicated by the arrow.

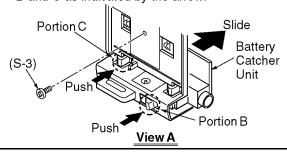


Fig. D13-3

## 6.1.10. LAMP PORTION (Model: A, C, D, E)

#### **DANGER:**

When replacing the Lamp, use only Lamp (Part No. VLLW0015) supplied by Panasonic to reduce the risk of fire. Use a cloth or tissue when handling the Lamp as finger oils will decrease the Lamp life.

To prevent possible burn hazard, remove the Light Cover and allow the Lamp to cool before replacing.

#### Note:

- 1. Lamp is supplied as a Lamp Kit only (Kit No. VULS0001) which contains Lamp, Cushions, and Explanation Sheet.
- 2. For more details of the Lamp replacement, refer to the Explanation Sheet in the Lamp Kit (VULS0001).

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Light Cover	D14-1	2(L-1)
2	Lamp	D14-2	

## 6.1.10.1. Light Cover

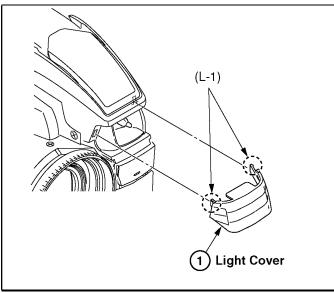
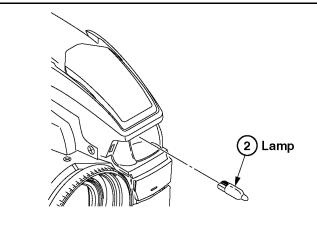


Fig. D14-1

# 6.1.10.2. Lamp



#### Note:

- 1) When removing the Lamp, use Needle-nose Pliers etc.
- When installing the Lamp, do not touch the surface of Lamp directly. Use a clean cloth or tissue to install the Lamp.

Fig. D14-2

## 6.2. MECHANISM SECTION

## 6.2.1. Disassembly Method

This procedure starts with the condition that the cabinet parts and Main C.B.A. have been removed. When reassembling, perform the step(s) in the reverse order.

Perform all disassembly and alignments procedures in STOP Position except disassembly and alignment procedures which have the special Notes.

STEP LOC. No.	Prior Step (s)	Part	Fig. No.	Remove
1	-	Cassette Up Unit	DM3-1,2	2(S-1), 2(L-1)
2	-	Cylinder Ass'y	DM4-1	3(S-1), Hooking Portion
3	2	Upper Cylinder Unit	DM4-2,3	(S-1)
4	2	Cylinder/Head Amp F.P.C.	DM4-2,3	FP3501
5	2	Bulge Chip	DM4-2,3	(S-2)
6	-	P.C.B. Angle	DM5	(S-1)
7	-	Mechanism F.P.C. Unit	DM6-1,2	4(S-1), Hooking Portion, double-sided adhesive tape, Unsolder
				Gear Alignment (x1)
8	1,9	Tension Unit	DM7-1,2	(C-1), Hooking Portion
9	1,8	Reel Table Unit	DM7-1,2	(C-2), (W-1)
19	1,8,9	Rev Clutch	DM8	(C-1)
1	1	Take Gear	DM9-1,2	(L-1)
12	1,11	Rev Brake Arm Unit	DM9-1,2	(C-1), Hooking Portion
13	-	A/C Head Unit	DM10	(S-1), Unsolder
14)	-	Capstan Belt	DM11	-
15	6,13,14	Capstan Unit	DM12	2(S-1), (S-2)
16	1,6,7,11,12,14	Idler Arm Unit	DM13	(C-1)
17)	2	Mechanism Support Angle	DM14	(S-1)
18	1	Reduction Gear B	DM15	(C-1)
19	-	Reduction Gear A	DM16	(C-1)
(2)	1,18	Reduction Gear Unit	DM16	2(S-1)
21)	1	Pinch Arm Unit	DM17-1,2	(C-1)
(2)	1	Opener	DM17-1,2	(S-1)
23	1,11,21,22	P5 Arm Unit	DM17-1,2	Hooking Portion
(4)	1,17	Takeup Post Unit	DM18-1,2	(S-1)
(25)	1	Supply Post Unit	DM18-1,2	(S-2)
(%)	-	Impedance Roller Unit	DM19-1,2	(C-1)
27	1,2,13,24,25	Loading Base Unit	DM19-1,2	4(S-1)
28	1,2,8,9,13,24,25,27	Takeup Loading Arm Unit	DM20	- Gear Alignment (x1)
29	1,2,8,9,13,24,25,27	Supply Loading Arm Unit	DM21-1,2,3	- Gear Alignment (x2)
33	8,9,19	Loading Motor Unit	DM22	2(S-1)
31)	1,2,8,9,10,18,19,20,24,25,27,29,30	Main Cam Unit	DM22	-
32	1,2,8,9,10,18,19,20,24,25,27,29,30,31	Pinch Toggle	DM22	-
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
A	I B	C	D D	I E

#### How to read chart shown above:

A: Order of Procedure steps.

When reassembling, perform steps(s) in reverse order. These numbers are also used as the identification (location) No. of parts in Figures.

- B: Steps to be completed prior to the current step.
- C: Part to be removed or installed.
- D: Fig. No. showing Procedure or Part Location.
- E: Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or unsoldered. 3(S-1)=3 Screws (S-1), 3(W-1)=3 Washers (W-1), (C-1)=Cut Washer (C-1), 2(L-1) = 2 Looking Tabs (L-1)

#### **CAUTION:**

- Use a wrist strap to provide ESD protection while disassembling or assembling.
- Removed Cut Washer is not reusable. If removed, install a new one.

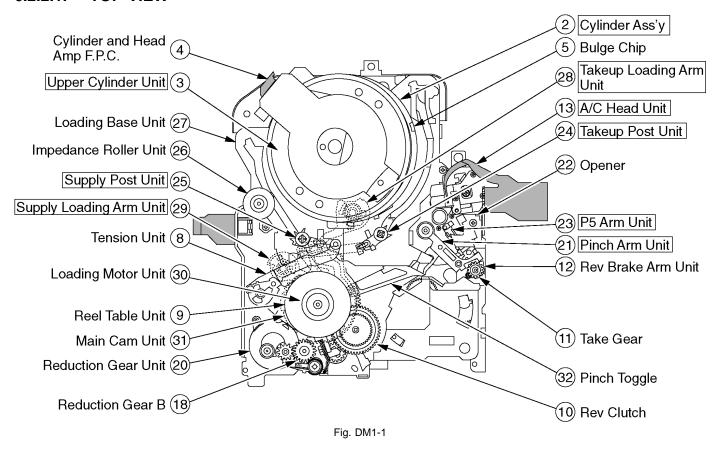
Following Cut Washers are to be used:

Ref. No.	Part No.
409	VMXW0217
411	VMXW0213
419	VMX2026

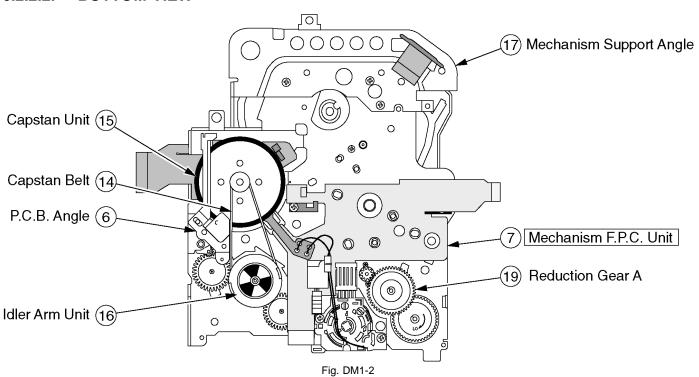
#### 6.2.2. Inner Parts Location

**Note:** BOX indicates alignment (Gear alignment or Tape Interchangeability adjustment) required when a part is replaced.

#### 6.2.2.1. TOP VIEW



#### 6.2.2.2. **BOTTOM VIEW**



#### 6.2.3. STOP Position Confirmation

Check the following alignment points to confirm that the Mechanism is in STOP Position from the Top and Bottom View.

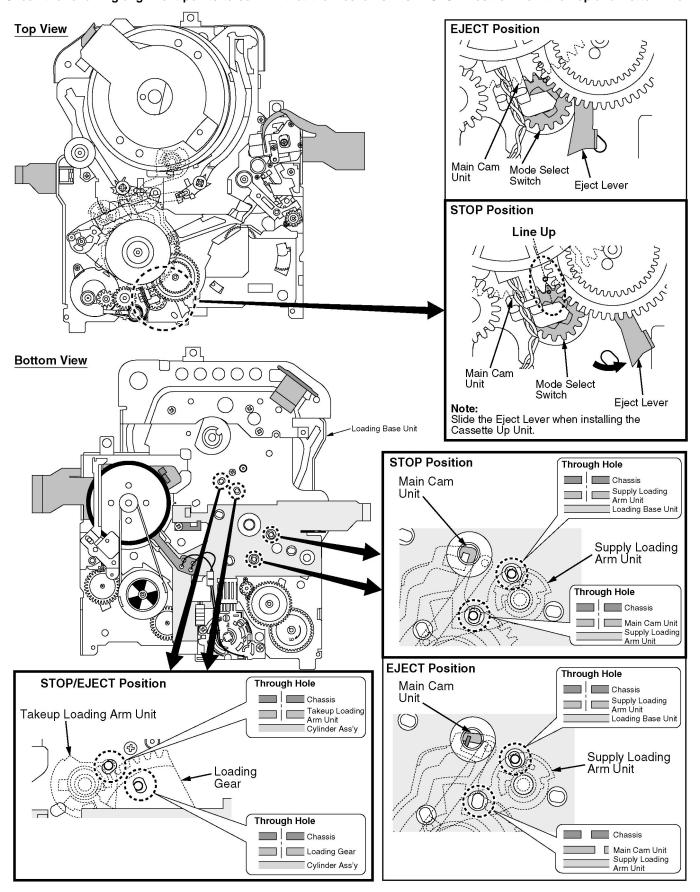
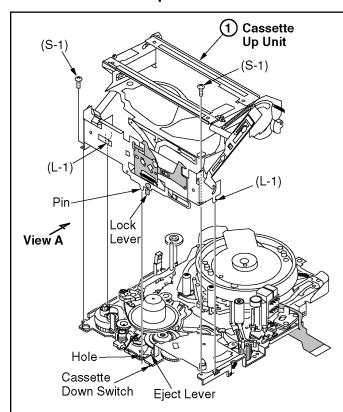


Fig. DM2

Perform all disassembly and alignments procedures in STOP Position except disassembly and alignment procedures which have the special Notes.

## 6.2.4. Cassette Up Unit



#### Note:

The replacement Cassette Up Unit is supplied with a Lock Screw installed as shown below.

Make sure to remove this Lock Screw when replacing the Cassette Up Unit.

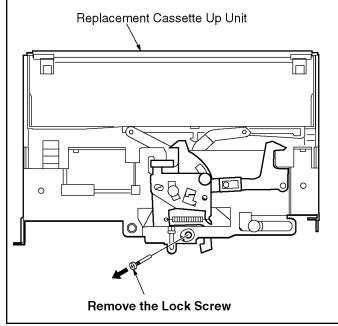


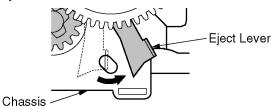
Fig. DM3-1

#### Reassembly Note:

1. Installation of the Cassette Up Unit

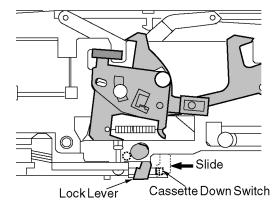
Installation is possible except when the Mechanism is in Eject Position.

(1) Before installing the Cassette Up Unit, confirm that the Eject Lever is slid as shown.



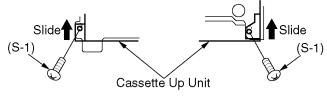
#### Top View

(2) Slide the Lock Lever. (Otherwise, the Lock Lever may damage the Cassette Down Switch when installing the Cassette Up Unit.)



#### View A

- (3) Then, Install the Cassette Up Unit while setting 2 Locking Tabs (L-1). Next, insert Pin into Hole on the Chassis.
- (4) Slide the Cassette Up Unit as far as possible as indicated by the arrow. Then, tighten 2 Screws (S-1).



#### **Top View**

(5) After installing the Cassette Up Unit, confirm that the Lock Lever is on the left of the Eject Lever as shown.

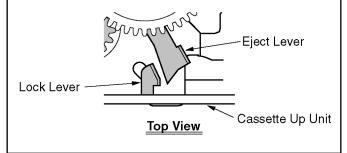
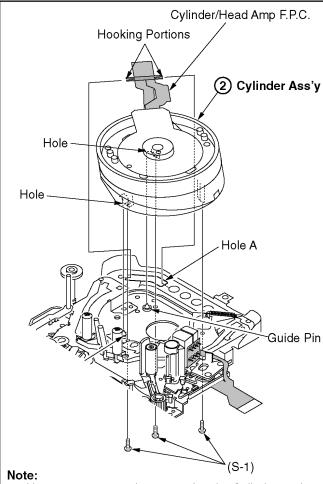


Fig. DM3-2

#### 6.2.5. Cylinder Ass'y



- 1. Use extreme care when removing the Cylinder Ass'y. Do not touch the Video Heads during servicing.
- 2. Removal of the Cylinder Ass'y
- (1) Unhook the Cylinder/Head Amp F.P.C. while lifting up the Cylinder Ass'y slightly and remove it from the Hole A.

#### **Reassembly Note:**

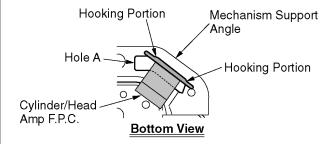
- 1. Use extreme care when replacing the Cylinder Ass'y.

- Do not touch the Video Heads during servicing.

  2. Installation of the Cylinder Ass'y

  (1) Insert the Cylinder/Head Amp F.P.C. to Hole A first.

  (2) Install the Cylinder Ass'y so that 2 Holes on the Lower Cylinder Unit surface fit over the 2 Guide Pins on the Chassis. Then, tighten 3 Screws (S-1).
- (3) Hook the Cylinder/Head Amp F.P.C. as shown.



- 3. Adjustment of the Cylinder Ass'y
- (1) After replacing, perform the "Tape Interchangeability Adjustment" procedures.

Fig. DM4-1-1

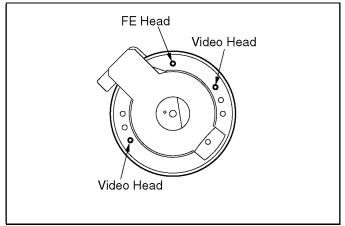
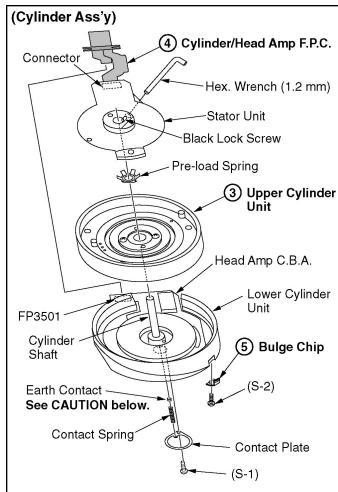


Fig. DM4-1-2

# 6.2.6. Upper Cylinder Unit, Cylinder/Head Amp F.P.C., Bugle Chip



#### Note:

- Use extreme care when removing the Upper Cylinder Unit. Do not touch the Video Heads during servicing.
- 2. Removal of the Upper Cylinder Unit
- (1) Disconnect the Connector FP3501 on the Head Amp
- (2) Remove Screw (S-1), then remove the Contact Plate, Contact Spring, and Earth Contact in the order.

# Do not remove the Upper Cylinder Unit before removing the Earth Contact.

- (3) Loosen the Black Lock Screw on the Stator Unit with a Hex. wrench (1.2 mm) and pull up on the Stator Unit.
- (4) Remove the Pre-load Spring.
- (5) Then, remove the Upper Cylinder Unit.

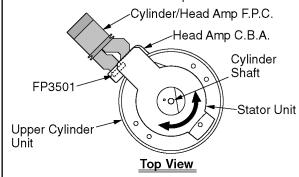
Fig. DM4-2

#### Reassembly Note:

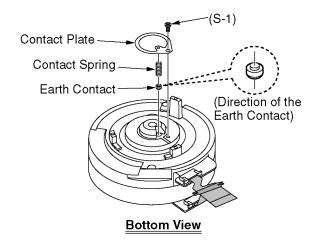
- Use extreme care when replacing the Upper Cylinder Unit. Do not touch the Video Heads during servicing.
- 2. Installation of the Upper Cylinder Unit

#### CAUTION:

- (1) Confirm that the Earth Contact is not in the Lower Cylinder Unit.
- (2) Install the Upper Cylinder Unit to the Lower Cylinder Unit
- (3) Confirm the position of the Pre-load Spring, and install it to the Cylinder Shaft.
- (4) Install the Stator Unit to the Cylinder Shaft. Rotate the Stator Unit to be positioned as shown.



- (5) Connect the Cylinder/Head Amp F.P.C. with the Connector FP3501 on the Head Amp C.B.A.
- (6) Tighten the Black Lock Screw (700 g/cm) on the Stator Unit with a Hex. wrench (1.2 mm) while lightly grasping (700 g±300 g) the top and bottom of the Cylinder Ass'y.
- (7) Install the Earth Contact, Contact Spring, and Contact Plate in the order. Then, tighten Screw (S-1).



#### 3. Adjustment of the Upper Cylinder Unit

 After replacing, perform the "Tape Interchangeability Adjustment" procedures.

Fig. DM4-3

# 6.2.7. P.C.B. Angle

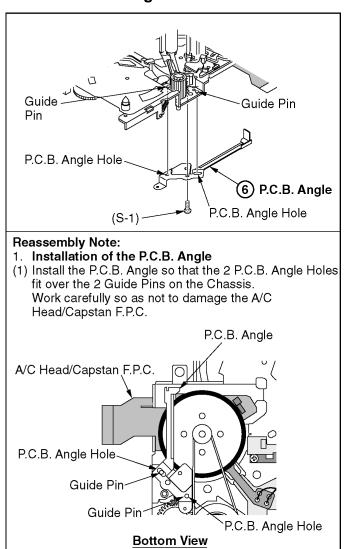


Fig. DM5

#### 6.2.8. Mechanism F.P.C Unit

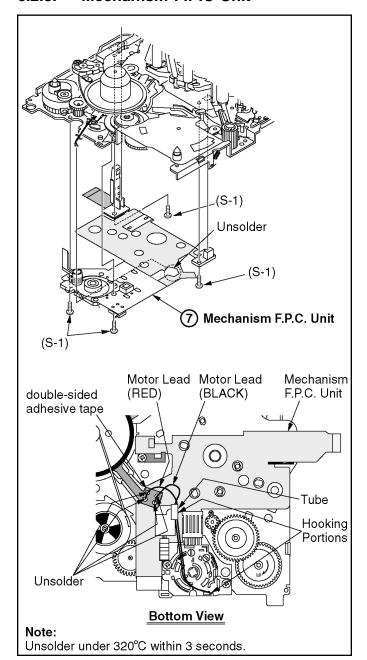
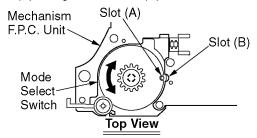


Fig. DM6-1

#### Reassembly Note:

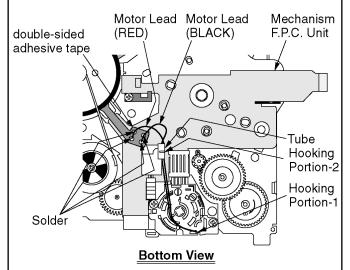
- . Gear Alignment
  - The Mode Select Switch and the Main Cam Unit
- (1) Place the Mechanism in the **STOP Position** by rotating the Gear of Reduction Gear Unit.
- (2) Before installing the Mechanism F.P.C. Unit, rotate the Mode Select Switch of Mechanism F.P.C. Unit so that Slot (A) is aligned with Slot (B).



- 2. Installation of the Mechanism F.P.C. Unit
- (1) Install the Mechanism F.P.C. Unit to the bottom of the Chassis. Then, tighten 4 Screws (S-1).
- (2) Hook the Motor Leads to Hooking Portion-1.
- (3) Pass the tube through the Motor Leads.
- (4) Solder the Motor Leads as shown.

Note: Solder under 320 °C within 3 seconds.

- (5) Hook the Motor Leads and the tube to Hooking Portion-2 together.
- (6) Confirm that the Motor Leads are set correctly on the Mechanism F.P.C. Unit as shown.



(7) Confirm that the Mode Select Switch is in STOP Position from the Top side.

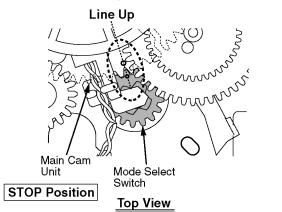
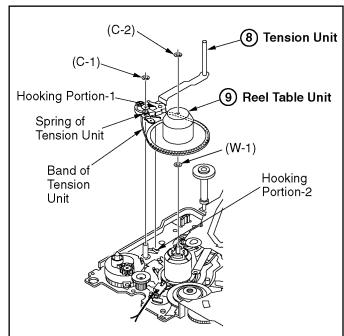


Fig. DM6-2

#### 6.2.9. Tension Unit, Reel Table Unit

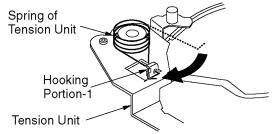


- Removal of the Tension Unit and the Reel Table
  Unit
- (1) Place the Mechanism in the Fully-loaded Position.
- (2) Remove Cut Washers (C-1), and (C-2).
- (3) Then, remove both the Tension Unit and the Reel Table Unit

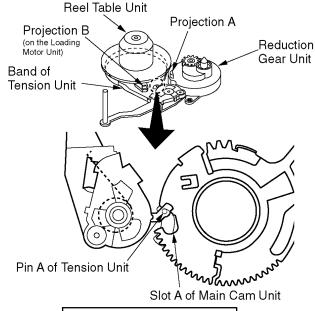
Fig. DM7-1

#### Reassembly Note:

- Installation of the Reel Table Unit and the Tension Unit
- (1) Before installing the Reel Table Unit and the Tension Unit, place the Mechanism in the **Fully-loaded Position** by rotating the Gear of Reduction Gear Unit.
- (2) Install Washer (W-1) onto the Loading Motor Unit first.
- (3) Hook the Spring of Tension Unit to the Tension Unit as shown.



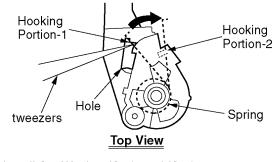
- (4) Hook the Band of Tension Unit to the groove of Reel Table Unit.
- (5) Install both the Reel Table Unit and Tension Unit to the Chassis so that the Pin A of Tension Unit is set into Slot A of the Main Cam Unit. Confirm that the Band of Tension Unit keeps off Projection A and B.



# Fully-loaded (Play) Position

#### **Top View**

(5) Unhook the Spring of Tension Unit from Hooking Portion-1 with tweezers etc. inserted through Hole to let it hook to Hooking Portion-2 on the chassis.



(6) Install Cut Washer (C-2), and (C-1).

Fig. DM7-2

#### **6.2.10.** Rev Clutch

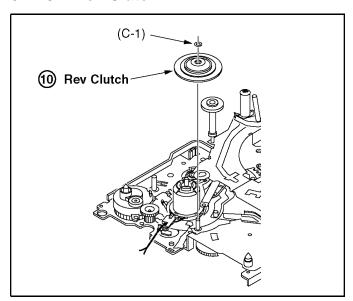


Fig. DM8

# 6.2.11. Take Gear, Rev Brake Arm Unit

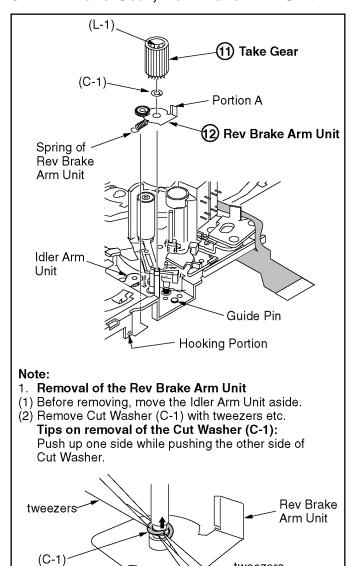


Fig. DM9-1

(3) Remove the Rev Brake Arm Unit after unhooking the

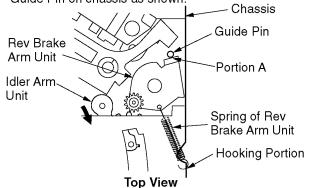
Spring of Rev Brake Arm Unit.

tweezers

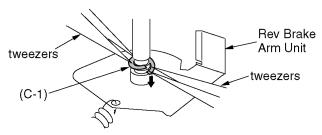
#### Reassembly Note:

#### 1. Installation of the Rev Brake Arm Unit

- (1) Before installing the Rev Brake Arm Unit, move the Idler Arm Unit aside as indicated by the arrow.
- (2) Hook the Spring of Rev Brake Arm Unit to the Hooking Portion. After hooking the Spring, confirm that Portion A of the Rev Brake Arm Unit does not pass over the Guide Pin on chassis as shown.



(3) Install Cut Washer (C-1) with tweezers. Tips on installation of the Cut Washer (C-1): Push down one side while pushing the other side of Cut Washer.



- (4) After installing, confirm that Cut Washer (C-1) can be rotated.
- 2. Installation of the Take Gear
- (1) Before installing the Take Gear, move the Idler Arm Unit aside as indicated by the arrow.
- (2) Install the Take Gear while rotating so it engages with Gear A so as not to cause damage.

Then, confirm that Locking Tab (L-1) is set.

Note: Use extreme care when installing the Take Gear. If Locking Tab (L-1) is broken, install a new Take Gear.

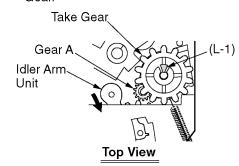
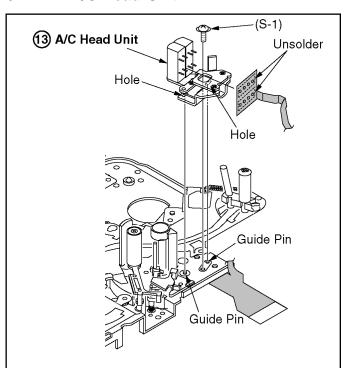


Fig. DM9-2

#### 6.2.12. A/C Head Unit

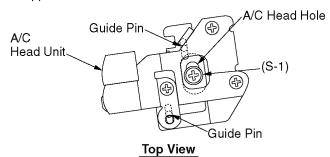


#### Note:

Unsolder under 320°C within 3 seconds.

#### Reassembly Note:

- 1. Installation of the A/C Head Unit
- (1) Install A/C Head Unit so that 2 Guide Pins are in holes on the A/C Head Unit.
- (2) Tighten Screw (S-1) (1.0 ~ 1.3 kgf •cm) in the approximate center of the hole.

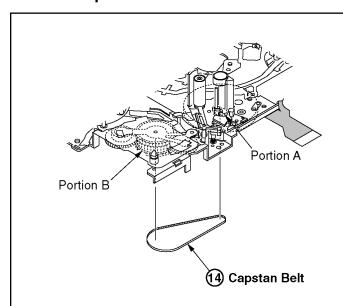


#### 2. Adjustment of the A/C Head Unit

(1) After replacing, perform the "Tape Interchangeability Adjustment" procedures.

Fig. DM10

#### 6.2.13. Capstan Belt



#### **Reassembly Note:**

- 1. Tips on Installation of the Capstan Belt
- (1) Hook the Capstan Belt to Portion A of Capstan Unit at first as shown.
- (2) Hook the Capstan Belt to Portion B of Idler Arm Unit.
- (3) Rotate the Idler Arm Unit as indicated by the arrow (counterclockwise) and set it completely.

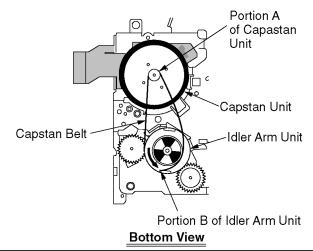
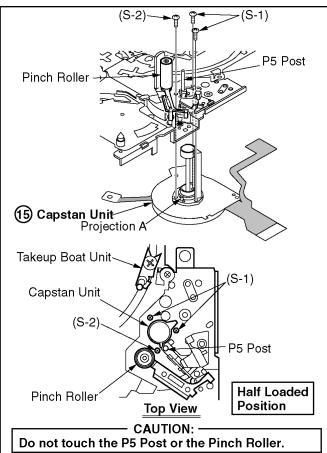


Fig. DM11

## 6.2.14. Capstan Unit



# Removal of the Capstan Unit

(1) To remove, put the mechanism in the **half loaded position** to gain access to Screw (S-2) as shown by rotating the Gear of Reduction Gear Unit. Then, remove Screw (S-2).

#### **Reassembly Note:**

- Since the Capstan Unit has already been adjusted at the factory, do not try to adjust the FG Head. The Capstan Unit is supplied as a complete assembly as a replacement part.
- 2 Installation of the Capstan Unit
- Before installing the Capstan Unit, put the mechanism in the half loaded position to gain access to Screw (S-2) for installing by rotating the Gear of Reduction Gear Unit.
- (2) Install the Capstan Unit to the Chassis so that Projection A fit in the Slot on the Chassis.
- (3) Tighten 2 Screws (S-1). Then, tighten Screw (S-2).

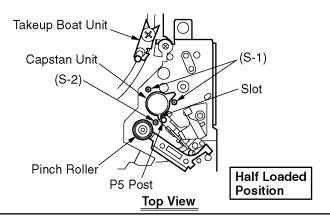


Fig. DM12

# 6.2.15. Idle Arm Unit

# Hole A Pin A Portion B (C-1)

#### 1. Removal of the Idler Arm Unit

(1) To remove the Idler Arm Unit, pull the Idler Arm Unit slightly from the Chassis to release Pin A from Hole A. Then, remove the Idler Arm Unit while turning as indicated by the arrow.

#### Reassembly Note:

- 1. Installation of the Idler Arm Unit
- (1) Set the Idler Arm Unit so that Portion B is in Hole B as shown.
- (2) Turn the Idler Arm Unit slightly as indicated by arrow to set Pin A in Hole A.

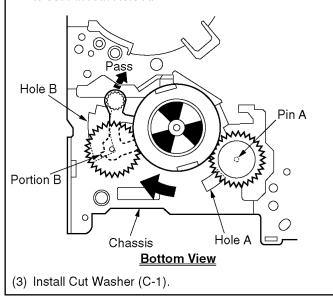


Fig. DM13

## 6.2.16. Mechanism Support Angle

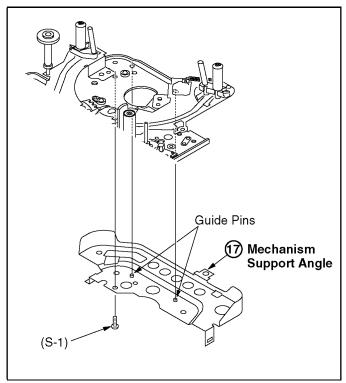


Fig. DM14

Reduction Gear

#### 6.2.17. Reduction Gear B

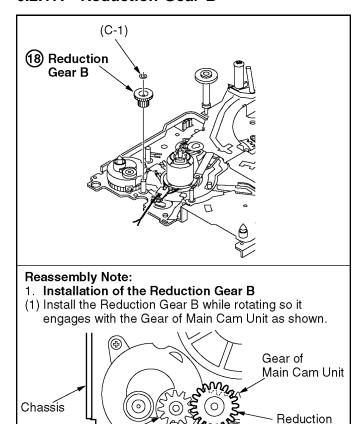


Fig. DM15

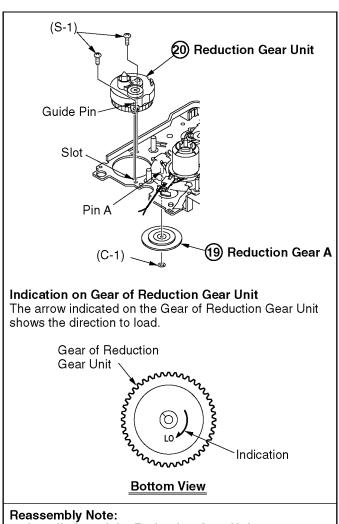
unloaded by rotating the Gear of Reduction Gear Unit.

**Top View** 

(2) Confirm that the Mechanism can be loaded or

Gear B

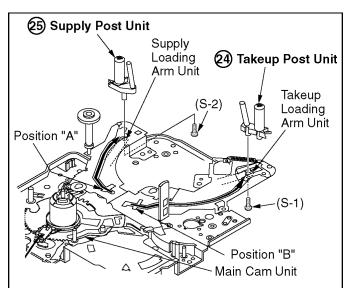
# 6.2.18. Reduction Gear A, Reduction Gear Unit



- 1. Installation of the Reduction Gear Unit
- (1) Install the Reduction Gear Unit so that Guide Pin fits in the Slot on the Chassis.
  Then, tighten 2 Screws (S-1).

Fig. DM16

## 6.2.20. Takeup Post Unit, Supply Post Unit



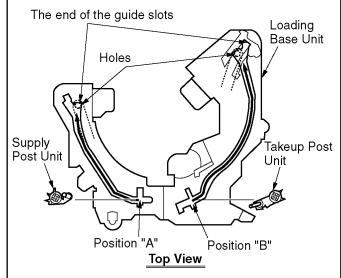
#### Note:

- Removal of the Supply Post Unit and the Takeup Post Unit
- (1) Load the Mechanism to the **Loading Position** to gain access to Screw (S-1) and (S-2) for removal by rotating the Main Cam Unit.
- (2) Then, remove Screw (S-1) and (S-2).
- (3) Put the arm of the Supply Loading Arm Unit and the Takeup Loading Unit aside.
- (4) Slide back the Supply Post Unit and the Takeup Post Unit to Position "A" and "B" and remove.

Fig. DM18-1

#### **Reassembly Note:**

- Installation of the Supply Post Unit and the Takeup Post Unit
- (1) Confirm that the end of the arm (the threaded hole) of Supply Loading Arm Unit and the end of the arm (the threaded hole) of Takeup Loading Arm Unit are in the end of the guide slots.
- (2) Install the Supply Post Unit and the Takeup Post Unit into Position "A" and "B" while being careful of the direction of the Supply Post Unit and the Takeup Post Unit.
- (3) Slide the Supply Post Unit and the Takeup Post Unit to the end of guide slots as shown.



- (4) Align the Hole of the Supply Loading Arm Unit with the Threaded Hole of the Supply Post Unit. Do the Same with the Takeup Post Unit.
- (5) Tighten Screw (S-1) and (S-2).

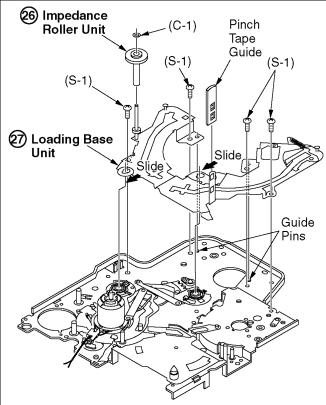
#### Caution:

Be careful of the following when tightening Screw (S-1) and (S-2).

- 1. Be sure to tighten screws straight.
- 2. Do not over tighten screws.
- 2. Adjustment of the Supply Boat Unit and Takeup Boat Unit
- (1) After replacing, perform the "Tape Interchangeability Adjustment" procedures.

Fig. DM18-2

# 6.2.21. Impedance Roller Unit, Loading Base Unit



#### Note:

- Do not apply excessive pressure to the Impedance Roller Unit.
- 2. Removal of the Loading Base Unit
  Do not apply excessive pressure to the Loading Base
- Unit so as not to bend.
  (1) When removing the Loading Base Unit, remove 4 Screws (S-1).
- (2) Release 2 Guide Pins while lifting up the Loading Base Unit slightly. Then, remove the Loading Base Unit after sliding as indicated by the arrow.

Fig. DM19-1

#### Reassembly Note:

#### 1. Installation of the Loading Base Unit

- (1) Before installing the Loading Base Unit, rotate the Main Cam Unit clockwise (to change the gear position from STOP position (Fig. DM20) to Standby position (Fig. DM19-2)) so that Holes A, B, C, and D are Through Holes with holes on the chassis.
- (2) Confirm that Portion (a) of Supply Loading Arm Unit and (b) of Takeup Loading Arm Unit are in the position keeping off Thread Holes for 4 Screws (S-1) as shown. Because the Threaded Holes of the S and T Post are aligned with Hole of the S and T Loading Arm Unit.
- (3) Install the Loading Base Unit while sliding.
- (4) Tighten 4 Screws (S-1).

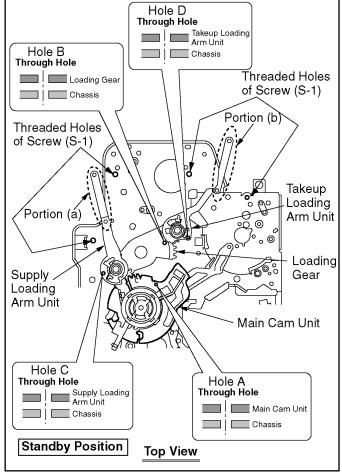
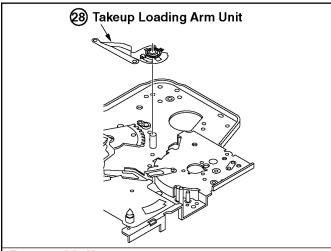


Fig. DM19-2

## 6.2.22. Takeup Loading Arm Unit



#### **Reassembly Note:**

- . Gear Alignment
  - The Takeup Loading Arm Unit and the Loading Gear
- (1) Rotate the Main Cam Unit counterclockwise (to change the gear position from Fully loaded position (Fig. DM21-2) to STOP position (Fig. DM20)) so that Hole C on the Supply Loading Arm Unit and Hole B on the Loading Gear are Through Holes with holes on the chassis.
- (2) Install the Takeup Loading Arm Unit while aligning Hole D with the hole on the chassis (Through Hole) as shown.

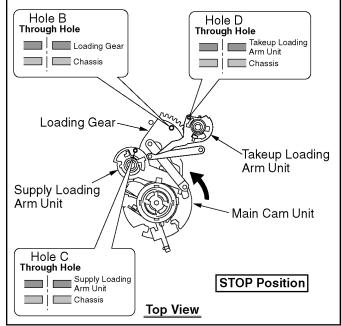


Fig. DM20

# 6.2.23. Supply Loading Arm Unit

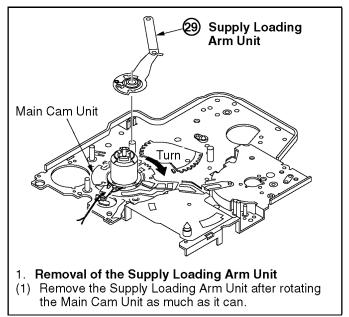


Fig. DM21-1

#### **Reassembly Note:**

- Gear Alignments
  - The Supply Loading Arm Unit and the Loading Gear
  - The Supply Loading Arm Unit and the Main Cam Unit
- (1) Confirm that Hole A on the Main Cam Unit is a Through Hole with a hole on the chassis by rotating the Main Cam Unit clockwise as much as possible. Also, make sure the Loading Gear makes contact with contact point.
- (2) Set the Supply Loading Arm Unit so that the last tooth of its lower gear is just outside the last tooth of the Loading Gear as shown.
- (3) Turn the Main Cam Unit counterclockwise first ①, then turn Supply Loading Arm Unit clockwise slightly ② so that the last tooth on upper gear of Supply Loading Arm Unit is just outside tooth (a) of Main Cam Unit.

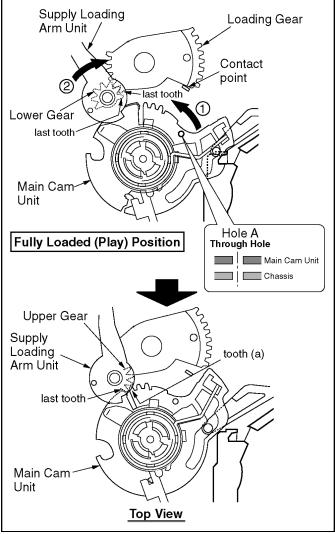


Fig. DM21-2

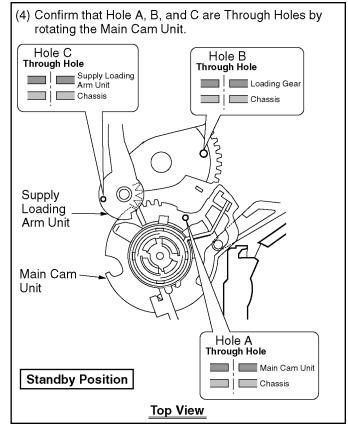
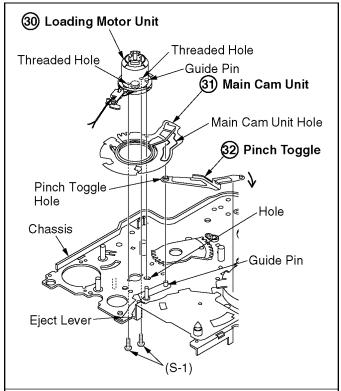


Fig. DM21-3

# 6.2.24. Loading Motor Unit, Main Cam Unit, Pinch Toggle



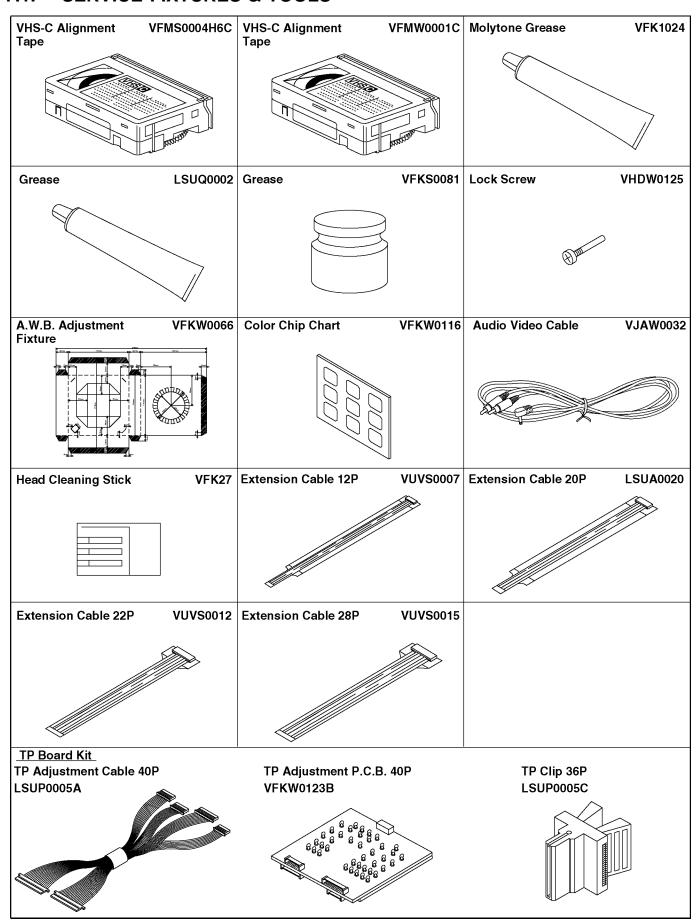
#### Reassembly Note:

- 1. Do not pull the Eject Lever upward so as not to bend it.
- 2. Installation of the Pinch Toggle and the Main Cam Unit
- (1) Install the Pinch Toggle so that the Pinch Toggle Hole fit over the Guide Pin.
- (2) Install the Main Cam Unit so that Guide Pin fits in the Main Cam Unit Hole.
- 3. Installation of the Loading Motor Unit
- (1) Install the Loading Motor Unit the Guide Pin fits in Hole on chassis.
- (2) Tighten 2 Screws (S-1). If the 2 Screws (S-1) can not reach Threaded Holes, push down on the upper side of the Loading Motor Unit to tighten 2 Screws (S-1).

Fig. DM22

# 7 ADJUSTMENT PROCEDURES

# 7.1. SERVICE FIXTURES & TOOLS



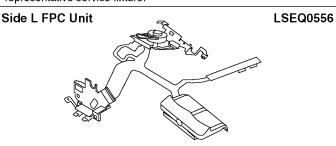
PV-D300 / VM-D100 / PV-L550 / PV-L600 / PV-L650 / VM-L450 **EVF** Unit LSYK0232 (Model: B,C,D,E,F) The part number of the monochrome EVF Unit for **Model B, C, D, E, F** is different from that of the monochrome EVF Unit (LSYK0232) which is supplied as a representative service fixture.

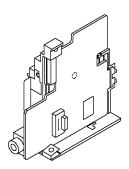
LSYK0234 (Model: A) **Color EVF Unit** 

The part number of the color EVF Unit for  ${\bf Model\ A}$  is different from that of the color EVF Unit (LSYK0234) which is supplied as a representative service fixture.

**Battery Catcher Unit** 

LSEQ0549 (Model: A,B) LSEQ0550 (Model: C,D,E,F)





Relay C.B.A.

LSEP8033A1

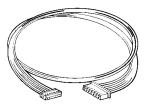


**CAAS Kit VFKW1000** 

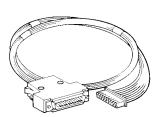
**Interface Box** VFKW1000A



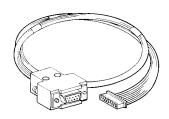
**Camera Connecting Cable** VFKW1000B



25pin RS-232C Cable VFKW1000D



9pin RS-232C Cable VFKW1000C



#### 7.2. MECHANICAL ADJUSTMENT

# 7.2.1. CLEANING PROCEDURE FOR THE UPPER CYLINDER UNIT

 While slowly turning the Upper Cylinder Unit counterclockwise by hand, gently rub the Video Heads with a Head Cleaning Stick (VFK27) moistened with Isopropyl Alcohol 91 %.

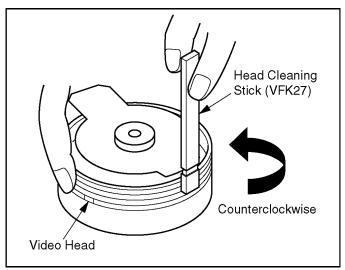


Fig. M1

#### Note:

- a. Do not rub vertically or apply excess pressure to the Video Heads.
  - Do not turn the Upper Cylinder Unit clockwise while cleaning.
- b. After cleaning, use a Dry Head Cleaning Stick (VFK27) to remove any Isopropyl Alcohol 91 % remaining on the cylinder tape path. Otherwise, tape damage will occur.

#### 7.2.2. ADJUSTMENT PROCEDURES

# 7.2.2.1. TAPE INTERCHANGEABILITY ADJUSTMENT

Before perform these Adjustment/Confirmation procedures, be sure to complete following items.

1. Connect the TP Board Kit to S301 on the camcorder. Refer to "HOW TO USE TP BOARD KIT" in "SERVICE NOTES."

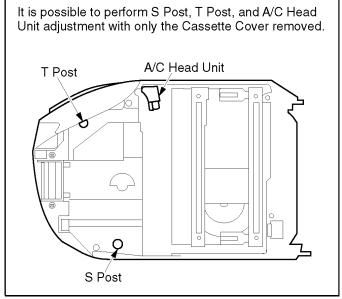


Fig. M2-1

- 2. Put the unit into the service mode "I. Tracking Fix" to defeat Auto Tracking. Refer to "SERVICE MODE SPECIFICATION" in "SERVICE NOTES."
- Remove the Cassette Lid Cover from the Cassette Tape or the Alignment Tape.

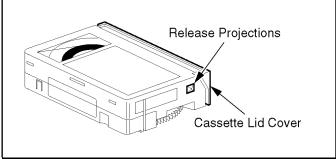


Fig. M2-2

Equipment Required:

Dual Trace Oscilloscope

VHS-C Alignment Tape (VFMS0004H6C)

VHS-C Alignment Tape (VFMW0001C)

Screwdriver Set (Purchase Locally)

TP Board Kit

TP Adjustment Cable 40P (LSUP0005A)

TP Adjustment P.C.B. 40P (VFKW0123B)

TP Clip 36P (LSUP0005C)

# 7.2.2.2. ENVELOPE OUTPUT ADJUSTMENT

The height of the S and T Posts replacement part is preset at the factory.

Purpose: To achieve a satisfactory picture and

secure precise tracking.

Symptom of Misadjustment:

If the envelope is output poorly, much noise will appear in the picture. Then the

tracking will lose precision and the playback picture will be distorted by any slight variation of the tracking control

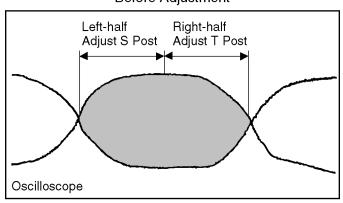
circuit.

- 1. Put the unit into the service mode "I. Tracking Fix" to defeat Auto Tracking. Refer to "SERVICE MODE SPECIFICATION" in "SERVICE NOTES."
- Connect the oscilloscope to Pin 30 (Envelope signal) on the TP Adjustment P.C.B. Use Pin 33 (Head Switch signal) as a trigger.
- 3. Play back the Alignment Tape (VFMS0004H6C).
- 4. Confirm that the RF envelope is flat enough. If not, with Flat Headed (—) Screwdriver, adjust S and T post height so that the envelope waveform becomes as flat as possible (No envelope drop). If the envelope drop appears on the lefthalf of the waveform, adjust S post height. If the envelope drop appears on the right-half of the waveform, adjust T post height.

#### **CAUTION:**

Do not apply excessive pressure onto the S and T Posts when adjusting S and T post height.

#### Before Adjustment



#### After Adjustment

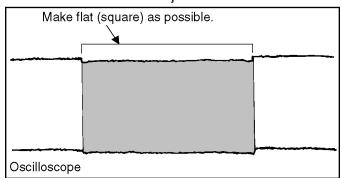


Fig. M3-1

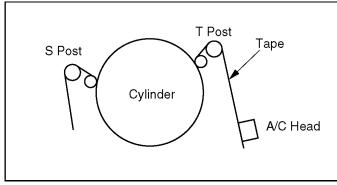


Fig. M3-2

#### Note:

It will be possible to confirm step 4) after performing the following steps.

- a. Exit the "I. Tracking Fix" mode, then skip the "J. PG Shifter" mode to enter other modes (except these 2). Or, close the service mode.
- b. Press the Tracking Control Up or Down button on the camcorder. Make sure that the envelope waveform remains flat. If not, readjust S and/or T post heights.
- After adjustment, confirm that the tape travels without curing at S and T posts.

If curing is apparent, readjust the height of posts.

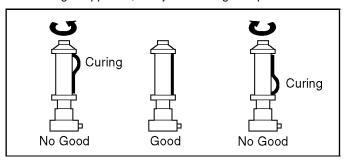


Fig. M3-3

#### 7.2.2.3. A/C HEAD HEIGHT ADJUSTMENT

The height of the A/C Head replacement part is preset at the factory.

Purpose: To be sure the tape runs properly along

the Control Head.

Symptom of If the control signal is not properly picked Misadjustment: up, Servo Operation can not be achieved.

- 1. Connect the oscilloscope to Pin 25 (PB Control signal) on the TP Adjustment P.C.B.
- 2. Play back the Alignment Tape (VFMW0001C)
- 3. Confirm that the Sub Control Signal is 500 mV±200 mV. If not, slightly and equally adjust Screw A, Screw B, and Screw C on the A/C Head Unit to achieve the sub control signal level of 500 mV±200 mV.

(Sub Control Signal level will decrease when rotating screws clockwise, and increase when rotating screws counterclockwise.)

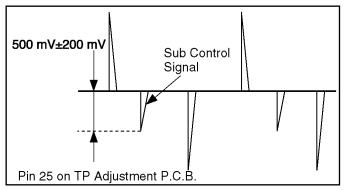


Fig. M4-1

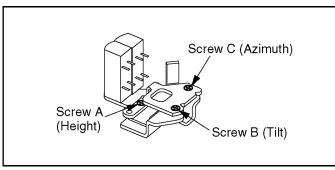


Fig. M4-2

# 7.2.2.4. A/C HEAD AZIMUTH ADJUSTMENT

Misadjustment:

Purpose: To adjust the position and height of the

A/C Head so that it meets the tape tracks

properly.

Symptom of If the position of the A/C Head is not

properly adjusted, the Audio S/N Ratio

will be poor.

- 1. Connect the Audio/Video Cable on the camcorder.
- 2. Connect the oscilloscope to audio output jack.
- 3. Playback the Alignment Tape (VFMS0004H6C).
- 4. Adjust Screw C (Azimuth) on the A/C Head Unit so that the output level is at maximum.

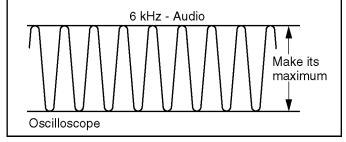


Fig. M5

- 5. Confirm and readjust the A/C Head height.
- 6. Confirm and readjust Screw C (Azimuth) on the A/C head so that the output audio becomes is maximum.

# 7.2.2.5. A/C HEAD HORIZONTAL POSITION ADJUSTMENT

Purpose: To adjust the Horizontal Position of the

A/C Head.

Symptom of If the Horizontal Position of the A/C Head Misadiustment: is not properly adjusted, maximum

envelope can not be obtained at the Neutral Position of the Tracking Control

Circuit.

- Put the unit into the service mode "I. Tracking Fix" to defeat
   Auto Tracking. Refer to "SERVICE MODE SPECIFICATION" in "SERVICE NOTES."
- Connect the oscilloscope to Pin 30 (Envelope signal) on the TP Adjustment P.C.B. Use Pin 33 (Head Switch signal) as a trigger.
- 3. Play back the Alignment Tape (VFMS0004H6C).
- 4. Set the Screwdriver into the Hole (A) as shown.

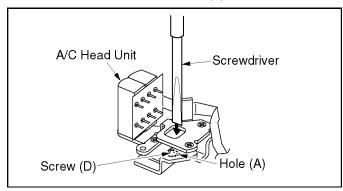


Fig. M6-1

5. Slowly move the A/C Head Unit to the direction "A" or "B" as shown so that the envelope is at maximum.

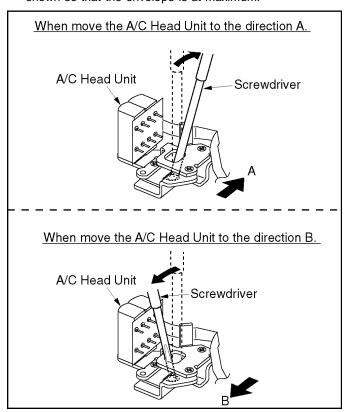


Fig. M6-2

To find the center of the maximum period of the envelope, move the A/C Head Unit to confirm the limits on either side of the maximum period.

#### Note:

It will be possible to confirm step 6) after performing the following steps.

- a. Exit the "I. Tracking Fix" mode, then skip the "J. PG Shifter" mode to enter other modes (except these 2). Or, close the service mode.
- b. Press the Tracking Control Up Button on the camcorder several times (count the number of times pressed) until the maximum envelope is reduced to 1/2.
- c. Press the Tracking Control Down Button on the camcorder several times (count the number of times pressed) until the maximum envelope is reduced to 1/2.
- d. If the number of pressing is not the same, readjust A/C Head horizontal position.

# 7.2.2.6. CONFIRMATION OF ENVELOPE OUTPUT

Purpose: To achieve a satisfactory picture and

secure precise tracking.

Symptom of If the envelope is output poorly, much Misadjustment: noise will appear in the picture. Then the

tracking will lose precision and the playback picture will be distorted by any slight variation of the tracking control

circuit.

- Connect the oscilloscope to Pin 30 (Envelope signal) on the TP Adjustment P.C.B. Use Pin 33 (Head Switch signal) as a trigger.
- 2. Play back the Alignment Tape (VFMS0004H6C).
- 3. Confirm that the envelope waveform is as flat as possible (V1/V(max) > 0.7).

If adjustment is required, adjust S Post and/or T Post with "—" Screwdriver. Refer to "Envelope Output Adjustment."

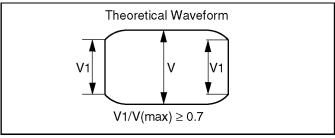


Fig. M7

# 7.3. ELECTRICAL ADJUSTMENT

## 7.3.1. INTRODUCTION

Most of Electrical adjustments can be adjusted using Personal Computer (PC-EVR Adjustment Software). The Set-up of PC-EVR Adjustment and the VR (Variable Resister) Adjustment Procedure are described in this section. For adjustment item (section) for the model you are servicing, please refer to the following table.

			1	MOE	DEL		
ADJUSTMENT ITEM (Section)	ADJUSTMENT SYTEM	PV-D300	VM-D100	PV-L550	PV-L600	PV-L650	VM-L450
Electrical Adjustment for CAMERA Section	Frequency Adjustment: VR Adjustment	0	0	0	0	0	0
	w/o Frequency Adjustment: PC-EVR Adjustment	0	0	0	0	0	0
Electrical Adjustment for VCR Section	PC-EVR Adjustment	0	0	0	0	0	0
Electrical Adjustment for COLOR EVF Section	PC-EVR Adjustment	0	_	_		—	_
Electrical Adjustment for MONOCHROME EVF Section	VR Adjustment	_	0	0	0	0	0
Electrical Adjustment for LCD MONITOR Section	PC-EVR Adjustment			0	0	0	0

# 7.3.2. INITIAL GUIDELINE

The table below shows which adjustments are necessary according to the unit parts and individual parts to be replaced. Make sure to perform these adjustments shown below as necessary.

·	Replacement Parts	MAIN C.B.A.	IC306(EEPROM)	IC309(HALL AMP)	IC602(TIMING SIGNAL GENERATOR)	IC605(SAMPLING HOLD&AGC CONTROL)	IC3001(LUMINANCE/CHROMINANCE SIGNAL PROCESS)	IC3002(TWIN CCD 1H DELAY)	X601	ELECTRONIC VIEWFINDER C.B.A	IC901(EVF DRIVE)	CCD C.B.A.	IC601(CCD IMAGE SENSOR)	COLOR ELECTRONIC VIEWFINDER C.B.A	LCD C.B.A.	IC9001(RGB SIGNAL PROCESS/LCD PANEL INDICATOR CONTROL)	IC9002(OP. AMP)	LENS UNIT	EVF UNIT	LCD UNIT	CYLINDER UNIT
Camera Section	Frequency Adjustment VCO Adjustment Burst/Sync Level Adjustment Hall Amp Adjustment		0000	0	0	0			0									0			
	Auto Focus Adjustment Gamma Adjustment A/D Input Adjustment Iris PWM Adjustment		0000	0		000						0	0					0			
	Pedestal Level Adjustment YH Level Adjustment Auto white balance Adjustment		10			0						0	0								
VCR Section	Playback Video Adjustment Sync Tip Frequency Adjustment Deviation Adjustment Rec Level Adjustment Comb Filter Gain Adjustment	00000	000000				00000	0													
Color EVF	YNR Adjustment Head Switching Position Adjustment VCO Adjustment EVF Pedestal/Contrast Adjustment	0	0				0	0						00					00		0
Section	RB Sub Pedestal Adjustment RB Sub Contrast Adjustment Color Gain Adjustment EVF White Balance Adjustment													0000					0000		
Monochrome EVF Section	Vertical Size Adjustment Centering Adjustment Brightness Adjustment Focus Adjustment										0000										
LCD Section	PLL Adjustment Pedestal Level Adjustment Contrast Adjustment RB Sub Pedestal Adjustment RB Sub Contrast Adjustment Color Gain Adjustment VCOM bias Adjustment White Balance Adjustment		0000000												00000000	00000000	0				

Note: O : Adjustment Item

#### 7.3.3. TEST EQUIPMENT

To do all of the Electrical Adjustment, the following equipments are required.

1. Dual-Trace Oscilloscope

Voltage Range: 0.001 to 50 V/Div. Frequency Range: DC to 50 MHz

Probes: 10:1, 1:1

- 2. DVM (Digital Volt Meter)
- 3. Frequency Counter
- 4. Color TV Monitor
- 5. VHS-C Alignment Tape (VFMS0004H6C)



Fig. E1-1

- 6. Vectorscope
- 7. Plastic Tip Driver
- 8. Audio Video Cable (VJAW0032)



Fig. E1-2

- 9. Power Supply for Interface Box.
- 10. Side L FPC Unit (LSEQ0556)

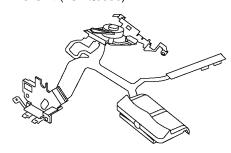


Fig. E1-3

- 11. EVF Unit (LSYK0232: Model B,C,D,E,F)
- 12. Color EVF Unit (LSYK0234: Model A)
- 13. Personal Computer

PC: IBM PC/AT or compatible OS: MS-DOS or MS-Windows

CPU: 486 or higher

Drive: 3.5 inch 1.44 MB floppy disk drive Port: D-Sub-9-pin Serial or D-Sub-25-pin Serial

Monitor: VGA Color

14. PC-EVR Adjustment Program (VF0C2000DV10)

#### Note:

Ask latest version when placing order for PC-EVR Adjustment program.

15. CAAS Kit (VFKW1000)

Interface Box (VFKW1000A)

Camera Connecting Cable (VFKW1000B)

9 Pin RS-232C Cable (VFKW1000C)

25 Pin RS-232C Cable (VFKW1000D)

16. TP Board Kit

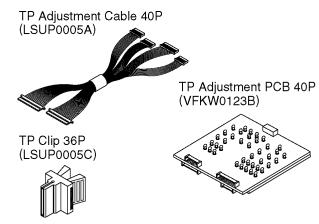


Fig. E1-4

#### (adjustment equipment with using Infinity Lens)

- 17. Lighting (Light Box (VFK1164LBX1) is recommended)
- 18. Infinity Lens (VFK1164TCM02) (with Focus Chart)
- 19.49 mm Ring (VFK1164TAR49)
- 20. Gray Scale Chart (VFK1164TFGS2)
- 21. Color Bar Chart (VFK1164TFCB2)
- 22. White Chart (VFK1164TFWC2)
- 23. Color Conversion Filter (VFK1164TFCT2)

#### (adjustment equipment without using Infinity Lens)

- 24. Lighting (Halogen Lamp (2000 lux))
- 25. Reflection Chart

Reflection Chart Set (VFKS003-N)

(Reflection Chart Set consists of Gray Scale Chart (VFKS003A), Color Bar Chart (VFKS003B), Registration Chart (VFKS003C), and Resolution Chart (VFKS003D))

Gray Scale Chart (VFKS003A)

Color Bar Chart (VFKS003B)

Registration Chart (VFKS003C)

Resolution Chart (VFKS003D)

Color Chip Chart (VFKW0116)

- 26. Color Temperature Conversion Filter 80A or equivalent Color Temperature Conversion Filter
- 27. Color Compensating Filter CC05M
- 28. A.W.B. Adjustment Fixture (VFKW0066)

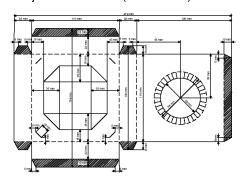


Fig. E1-5

#### 7.3.4. PREPARATION

- 1. Connect the Interface Box to the TP Board Kit with Camera Connecting cable (VFKW1000B).
- 2. Connect the Interface Box to the Personal Computer with RS-232C cable (VFKW1000C or VFKW1000D).
- 3. Connect the TP Board Kit to S301 on the camcorder. Refer to "HOW TO USE TP BOARD KIT" in "SERVICE NOTES."
- 4. Connect the AC Adaptor and camcorder, and apply
  - DC +6 V to the Interface Box.
- 5. Power on the camcorder.

#### Note:

In case that the camcorder is in DEMO mode, release DEMO mode as follows:

Power off the camcorder first. Then, disconnect the TP Board Kit, and power on the camcorder. Then, press the STOP button over 5 seconds.

#### **CAUTION:**

- a. Do not connect or disconnect any cables while the camcorder is powered on.
- b. Before using the TP Board Kit, be sure to clean S301 pattern with alcohol and confirm that there is no dust in the TP Clip.
- c. To achieve the best adjustment results, warm up the camcorder for approx. 30 minutes before adjustment.
- d. When removing the TP Clip from S301 on the camcorder, be sure to pinch the grips.

#### <Computer Assisted Adjustment System>

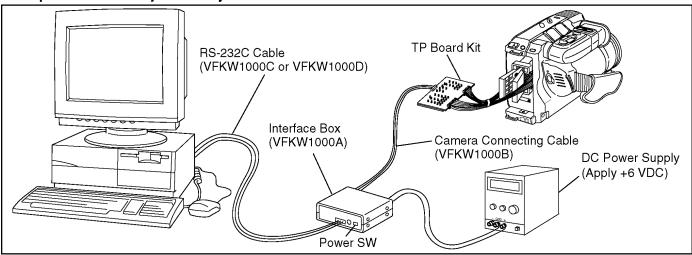


Fig. E2-1

6. Set up the camcorder for adjustment as follows:

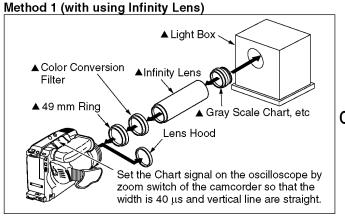


Fig. E2-2

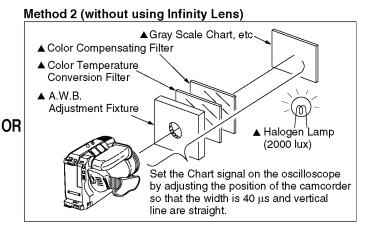


Fig. E2-3

# For necessary equipments marked ▲ in Fig. E2-2 and E2-3, refer to the following table.

				Me	Т	Method 2											
	Necessary equipment		ling	,						ast)					ersion Filter	ilter	ture
Adjustment Item		Light Box	Infinity Lens / 49 mm Ring	Focus Chart	Gray Scale Chart	Color Bar Chart	White Chart	Color Conversion Filter	Halogen Lamp	Any object (High contrast)	Gray Scale Chart	Color Bar Chart	Color Chip Chart	White Chart	Color Temperature Conversion Filter	Color Compensating Filter	A.W.B. Adjustment Fixture
	<b>\</b>	草	트	正	മ	Ŏ	8	٥	Ĭ	₹	മ	Ŏ	Ŏ	≥	ഠ്	ŭ	Ϋ́
Camera	Frequency Adjustment **	4															
Section	VCO Adjustment	-						Nla	ot us	204							
	Burst/Sync Level Adjustment	-						INO	วเ นร	sea							
	Hall Amp Adjustment Auto Focus Adjustment (Automatic Adjustment)		О	ТО	Г						Not a	wail	able	(Nic	to 1	1	
	Gamma Adjustment	0	10	10	0			-	0		0	avaii	able	(140	i Si		
	A/D Input Adjustment	lŏ	6		0			-	ŏ		0					$\vdash$	-
	Iris PWM Adjustment	ŏ	ŏ	+	ŏ			$\dashv$	ŏ		ŏ					$\vdash$	-
	Pedestal Level Adjustment	ŏ	ŏ		0			$\dashv$	ŏ		0					$\vdash$	-
	YH Level Adjustment	ŏ	ŏ		ŏ				ŏ		ŏ						
	Auto white balance Adjustment	<del>ا</del> ٽ	Ť		Ŭ				Ť		Ŭ						-
	1 Indoor Preset Adjustment	0	0		0			$\neg$	0		0						-
	2 Indoor Input Adjustment	ŏ	ŏ		ŏ			$\dashv$	ŏ		ŏ						-
	3 Outdoor Preset Adjustment	lŏ	ŏ		ŏ			ा	ŏ		ŏ				0	0	0
	4 Outdoor Input Adjustment	ŏ	Ŏ		ŏ			ŏ	ŏ		ŏ				ŏ	ŏ	ŏ
	5 Color Phase & R-Y, B-Y Gain Adjustment (Indoor Mode)	ŏ	ŏ			0		Ť	ŏ		Ŭ		0				Ť
	6 Color Phase & R-Y, B-Y Gain Adjustment (Outdoor Mode)	ŏ				Ŏ		ा	ŏ				Ŏ		0	0	0
VCR	Playback Video Adjustment	Ť		_						1							
Section	Sync Tip Frequency Adjustment	1						INO	ot us	sea							
	Deviation Adjustment	0	0		0				0		0						
	Rec Level Adjustment							NI-									
	Comb Filter Gain Adjustment	1							ot us	sea							
	YNR Adjustment	0				0			0			0					
	Head Switching Position Adjustment																
Color EVF	VCO Adjustment							NO	ot us	sea							
Section	EVF Pedestal/Contrast Adjustment	0	0		0				0		0						
	RB Sub Pedestal Adjustment	0	0		0				0		0						
	RB Sub Contrast Adjustment	0	0		0				0		0						
	Color Gain Adjustment	0	0			0			0			0					
	EVF White Balance Adjustment				_				ot us	sed	_						
Monochrome	Vertical Size Adjustment	0	0		0				0		0						
EVF.	Centering Adjustment	O	0	1	0				0		0	_				Ш	
Section	Brightness Adjustment **	Ŏ	Ō			0		_	0			0					
LODM: 3	Focus Adjustment *	0	0	1	0			N .	0	 	0						
LCD Monitor	PLL Adjustment			T				1/10	ot us	sea							
Section	Pedestal Level Adjustment	l S	9	+	0		$\vdash$	$\dashv$	읒		Ŏ	_				$\vdash$	
	Contrast Adjustment	Ö	0	-	00		$\vdash$	$\dashv$	Ö		0	_				$\vdash$	-
1	RB Sub Pedestal Level Adjustment	00	00	-	00		$\vdash$	$\dashv$	0		00	_				$\vdash\vdash\vdash$	$\dashv$
	RB Sub Contrast Level Adjustment			+			$\vdash$	$\dashv$								$\vdash$	$\dashv$
	Color Gain Adjustment VCOM Level Adjustment	00	0	1		0	$\vdash$	$\dashv$	0		0	0				$\vdash$	-
	White Balance Adjustment	믕	18		00		$\vdash$	$\dashv$	8		00	-				$\vdash$	$\dashv$
	write balance Adjustment	$\mathbf{r}$	$_{\rm I}$	1	$\cup$			1	$\cup$		$\cup$						

Note 1: Auto Focus adjustment (Automatic adjustment) is available for only Method 1.

# 7.3.5. SET UP OF PC-EVR ADJUSTMENT PROGRAM

1. Turn on the Personal Computer.

Windows® 95 will be set up automatically.

- 2. Restart it in MS-DOS mode.
- Change the current directory to the one including the PC-EVR Adjustment Program and start up the PC-EVR Adjustment Program as follows.
- 1) If MS-DOS is Japanese mode, input "us," and then press "ENTER" key to be US mode on.

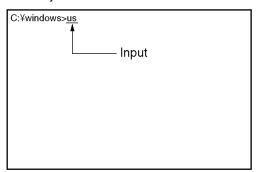


Fig. E3-1

 Input "cd \\*\*\*\*\*," and then press "ENTER" key to change the directory to the one including the PC-EVR Adjustment Program.

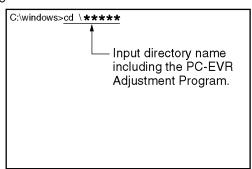


Fig. E3-2

3) Input "kc2000," and then press "ENTER" key to start up the PC-EVR Adjustment Program.

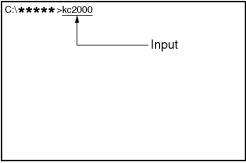


Fig. E3-3

"Select Model Number Menu" will be displayed.

- 4. Select the model number which you are servicing, and then press "Enter" key. The starting display will be displayed.
- Perform set up items according to menu until "Main Menu" is displayed.
- 6. Select "Sub Menu" to adjust or check, etc. the camcorder.

#### Note:

The adjusted data is stored to EEPROM IC after each adjustment.

#### 7.3.6. HOW TO USE MAIN MENU

#### Main Menu

Select "Sub Menu" by pressing  $\uparrow \downarrow$  (UP/DOWN) key in Main Menu. Then, adjust or check the camcorder according to the menu. Then, press "ENTER" key. "Sub Menu" will be displayed.

#### Note:

Menu 5 through 8 are needed for adjustment.

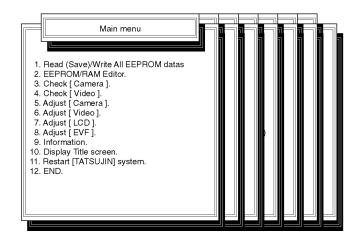


Fig. E4-1

Also, by pressing  $\leftarrow \rightarrow$  key, "Sub Menu" can be seen in order below.

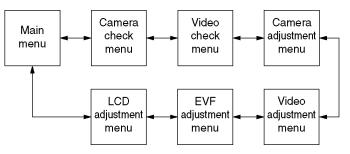


Fig. E4-2

#### 7.3.7. VR ADJUSTMENT

#### 7.3.7.1. CAMERA SECTION

# 7.3.7.1.1. Frequency Adjustment

Purpose: To set the chroma subcarrier.

Symptom of The picture will be no color. (The burst

Misadjustment: shifts)

Specifications: 14.31818 MHz±80 Hz

#### **Adjustment Procedure:**

1. Remove the Side Case (L) Unit. Refer to "CABINET SECTION" in DISASSEMBLY/ASSEMBLY PROCEDURES.

Connect the Side L FPC unit to the camcorder as shown in Fig. E5-1

- 2. Connect the Frequency counter to TP601 of Main C.B.A.
- 3. Adjust C610 on the Main C.B.A. so that the frequency becomes 14.31818 MHz±80 Hz.

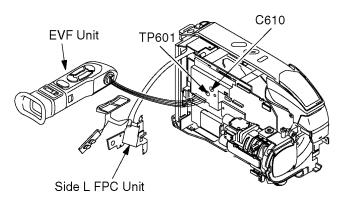


Fig. E5-1

#### 7.3.8. MONOCHROME EVF SECTION

#### Note:

Camcorder need NOT to be powered off and on after each adjustment procedure.

#### Preparation

- Before adjusting the Monochrome EVF, Camera section and VCR section adjustments must be completely adjusted.
- 2. Remove the EVF Case B Unit to gain access to VRs on the EVF C.B.A. (Refer to "DISASSEMBLY/ASSEMBLY PROCEDURES OF CABINET".)

## 7.3.8.1. Vertical Size Adjustment

Purpose: To set the standard vertical size on the

EVF picture.

Symptom of The vertical EVF picture size will be

Misadjustment: abnormal.

Test Point: -----

Adjustment: VR901 (EVF C.B.A.) Specification: Best Vertical size

Input: Gray Scale Chart

Mode: SP REC

Equipment: Viewfinder

#### **Adjustment Procedure:**

- 1. Aim the camcorder at the gray scale chart.
- 2. Adjust the VERTICAL SIZE CONTROL (VR901) so that the vertical picture size becomes correct.

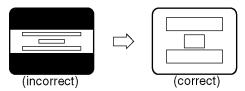


Fig. E5-2

#### 7.3.8.2. Centering Adjustment

Purpose: To set the optimum picture position on

the EVF picture.

Symptom of The EVF picture will be shifted.

Misadjustment:

Test Point: -----

**Adjustment: Deflection Yoke Centering Magnet** 

Specification: The picture position becomes centered on

the EVF picture

INPUT: Gray Scale Chart

Mode: SP REC

Equipment: Viewfinder

#### **Adjustment Procedure:**

1. Aim the camcorder at the gray scale chart.

2. Adjust the Deflection Yoke Centering Magnet by turning them so that the picture is centered in the Viewfinder.

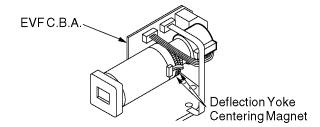


Fig. E5-3

## 7.3.8.3. Brightness Adjustment

Purpose: To set the optimum EVF brightness level.

Symptom of The EVF picture will be too white or

Misadjustment: black.

Test Point: -----

Adjustment: VR903 (EVF C.B.A.) Specification: Natural Gradation

INPUT: Color Bar Chart

Mode: SP REC

Equipment: Viewfinder

#### **Adjustment Procedure:**

1. Aim the camcorder at the color bar chart.

Adjust the BRIGHTNESS CONTROL (VR903) so that the brightness in the Viewfinder becomes natural gradation.

# 7.3.8.4. Focus Adjustment

Purpose: To set the optimum focus on the EVF

picture.

Symptom of The EVF picture will be out of focus.

Misadjustment:

Test Point: -----

Adjustment: VR902 (EVF C.B.A.)
Specification: Optimum focus

INPUT: Gray Scale Chart

Mode: SP REC

Equipment: Viewfinder

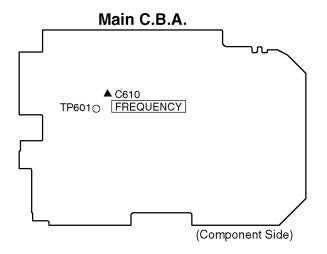
#### **Adjustment Procedure:**

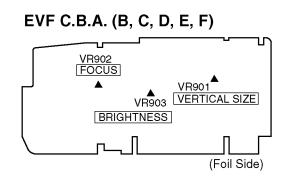
1. Aim the camcorder at the gray scale chart.

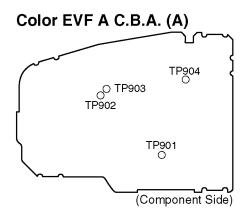
2. Adjust the FOCUS CONTROL (VR902) to optimum focus in

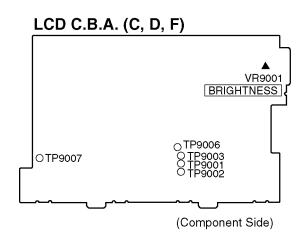
the Viewfinder.

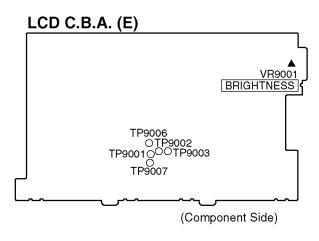
# 7.4. TEST POINTS AND CONTROL LOCATION











## **Test Point Information**

O Test Point with no Test Pin.

## SCHEMATIC DIAGRAM

#### 8.1. SCHEMATIC DIAGRAM & CIRCUIT BOARD LAYOUT NOTE

1. Important safety notice

Components identified by the sign  $\triangle$  have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

- 2. Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.
- 3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Parts different in shape or size may be used.

However, only interchangeable parts will be supplied as service replacement parts.

5. Test point information

Test point with a no test pin.

#### **Schematic Diagram Notes**

1. Indication for Zener Voltage of Zener Diodes

The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

Example:

(6.2V).....Zener Voltage

2. How to identify Connectors

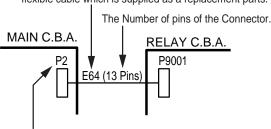
Each connector is labeled with a Connector No. and Pin No. Indicating what it is connected to, in other words, its counter

Use the interconnection schematic diagram to find the connection between associated connectors.

#### Example:

The connections between C.B.A.s are shown below.

Ref. No. of the connection parts such as lead cable, flexible cable which is supplied as a replacement parts.



Connector No. on Main C.B.A.

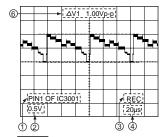
3. Parts enclosed in dashed lines marked "Z" are not used in any models included in this service manual.

Example:



#### **Signal Waveform Note**

How to read Signal Waveform



- (1) Connecting Point
- Volts/DivOperation Mode of VCR
- (4) Time/Div
- (5) Waveform Point on Schematic
- ⑥ ΔV1:Peak to Peak
- **WF5 ←**⑤

#### **Voltage Chart Note**

Voltage Measurement

- a. Color bar signal in SP mode.
- b. ---: Unmeasurable or not necessary to measure.

#### **Circuit Board Layout Note**

Circuit Board Layout shows components installed for various models. For proper parts content for the model you are servicing, please refer to the schematic diagram and parts list.

Circuit Board Layout includes components which are not used.

#### Comparison chart of models & marks

MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F
Not Used	Z

Refer to item 3 of Schematic Diagram Notes for mark "Z".

# 8.2. MAIN I (SYSTEM CONTROL/SERVO) SCHEMATIC DIAGRAM

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

\*1 NOTE

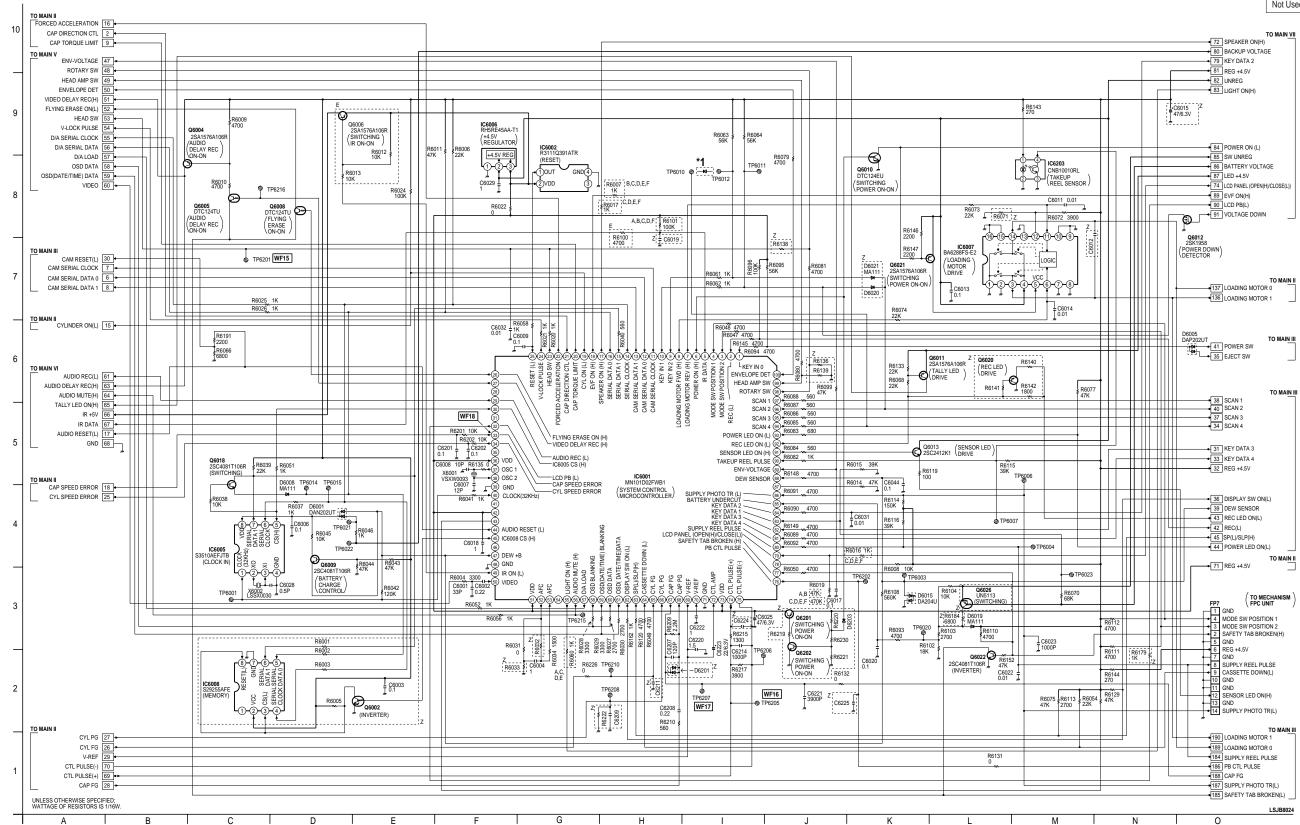
TO DEFEAT THE SAFETY FUNCTION, CONNECT A DIODE BETWEEN TP6010 AND TP6012, OR SELECT THE H.

SAFETY DEFEAT IN SERVICE MODE. REFER TO NOTE1 OF "EXTENSION CABLES FOR SERVICE" IN SERVICE NOTES SECTION FOR MORE INFORMATION.

#### 

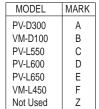
IC6001 KEY MATRIX CHART								
VOLTAGE	0~0.18V	0.72~1.08V	1.62~1.98V	2.52~2.88V	3.42~3.78V	4.32~4.50V		
KEY DATA 2 (PIN 84)	STOP	PLAY	FF/SEARCH	REW/ SEARCH	STILL			
KEY DATA 3 (PIN 82)	LIGHT (ON)	LIGHT (AUTO)				LIGHT (OFF)		
KEY DATA 4 (PIN 81)	UP	DOWN	TITLE		MENU			

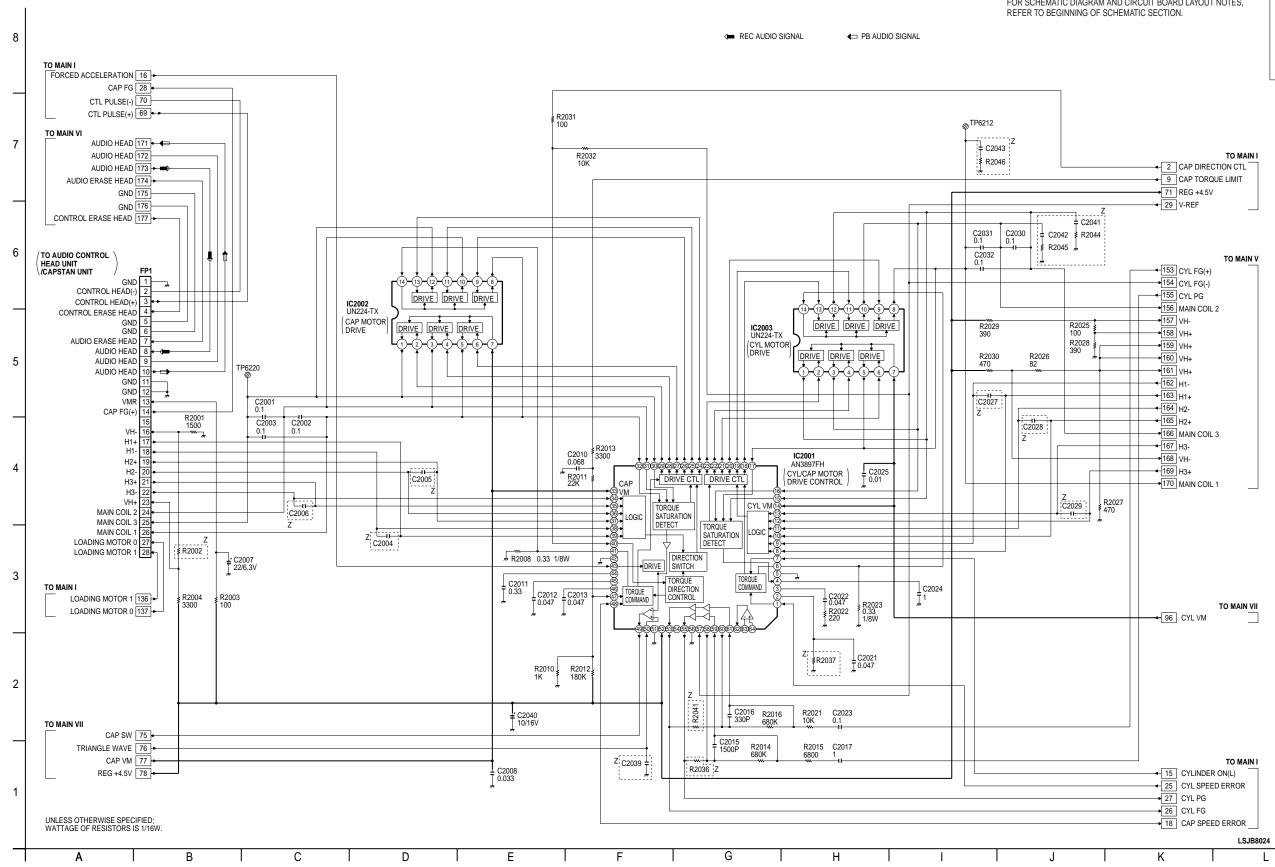
COMPARISON CHART OF MODELS & MARKS				
	MODEL	MARK		
	PV-D300	Α		
	VM-D100	В		
	PV-L550	С		
	PV-L600	D		
	PV-L650	E		
	VM-L450	F		
	Not Used	Z		



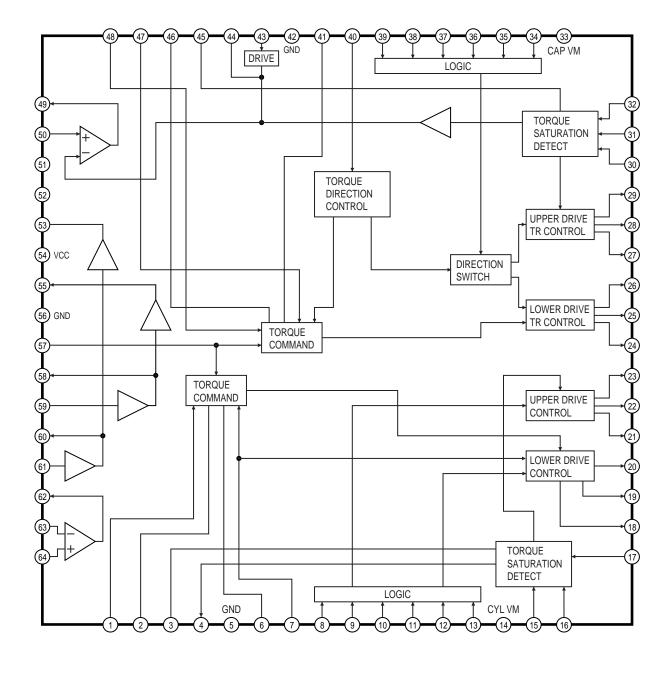
COMPARISON CHART OF MODELS & MARKS

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

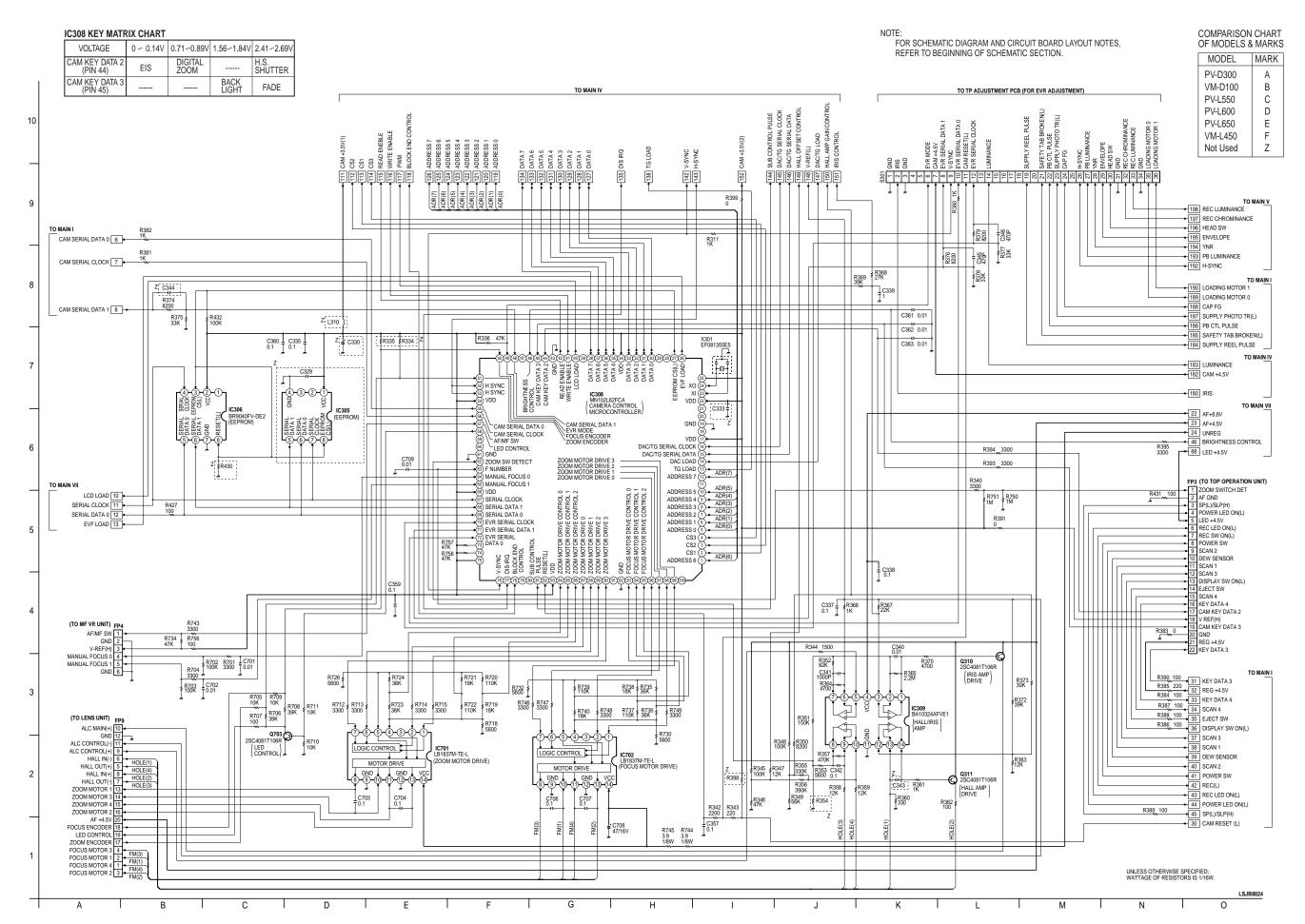




#### IC2001 CYLINDER/CAPSTAN MOTOR DRIVE CONTROL IC-DETAIL BLOCK DIAGRAM, AN3897FH



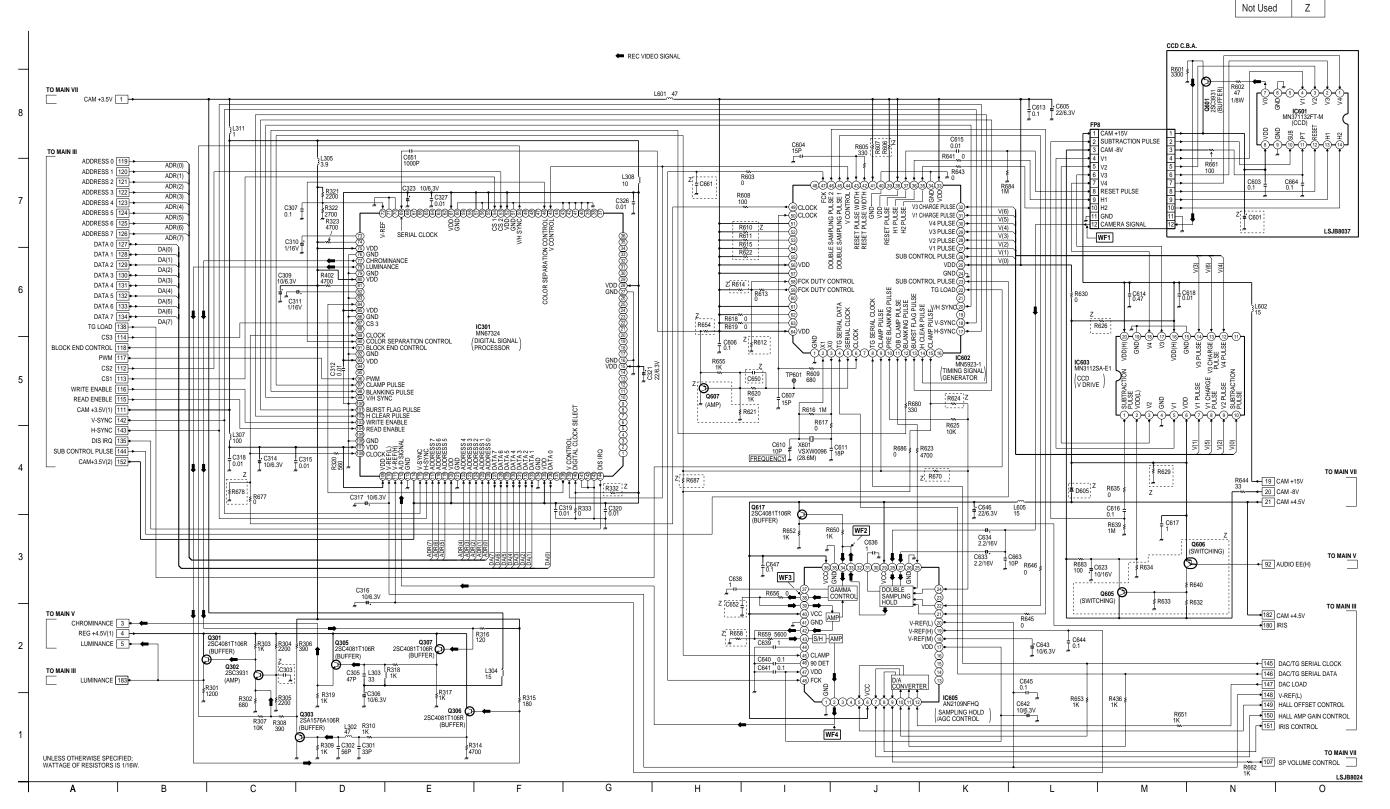
## 8.4. MAIN III (CAMERA I) SCHEMATIC DIAGRAM



COMPARISON CHART OF MODELS & MARKS

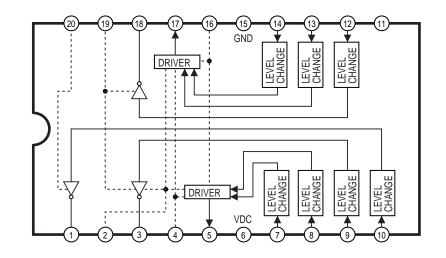
MODEL MARK
PV-D300 A
VM-D100 B
PV-L550 C
PV-L600 D
PV-L650 E
VM-L450 F

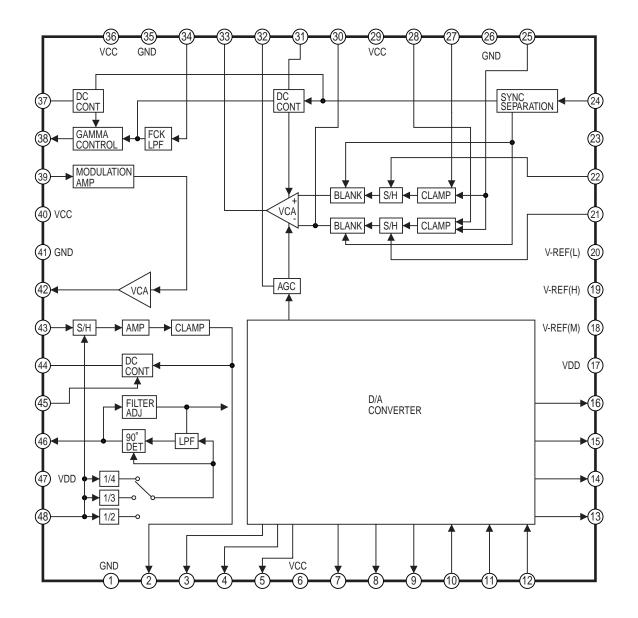
NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.



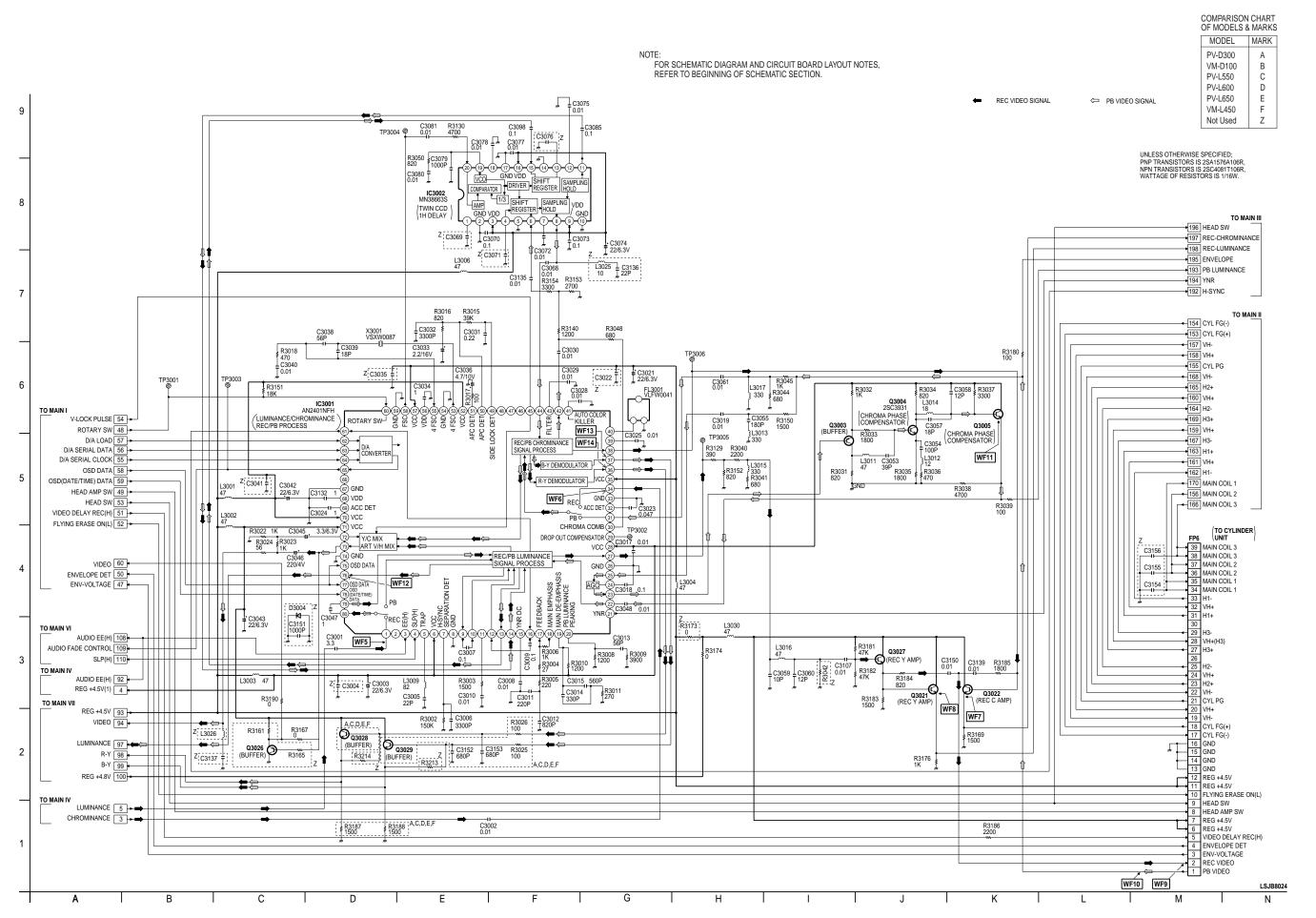
## IC603 CCD V DRIVE IC-DETAIL BLOCK DIAGRAM, MN3112SA-E1

#### IC605 SAMPLING HOLD/AGC CONTROL IC-DETAIL BLOCK DIAGRAM, AN2109FHQ

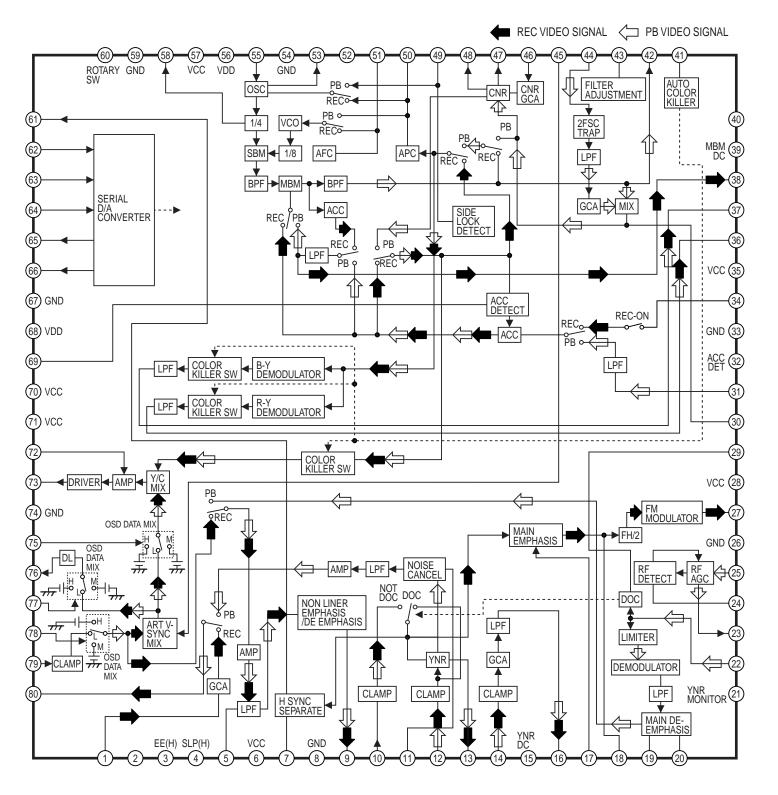




#### 8.6. MAIN V (VIDEO) SCHEMATIC DIAGRAM



#### IC3001 VIDEO/AUDIO PROCESS IC-DETAIL BLOCK DIAGRAM, AN2401NFH

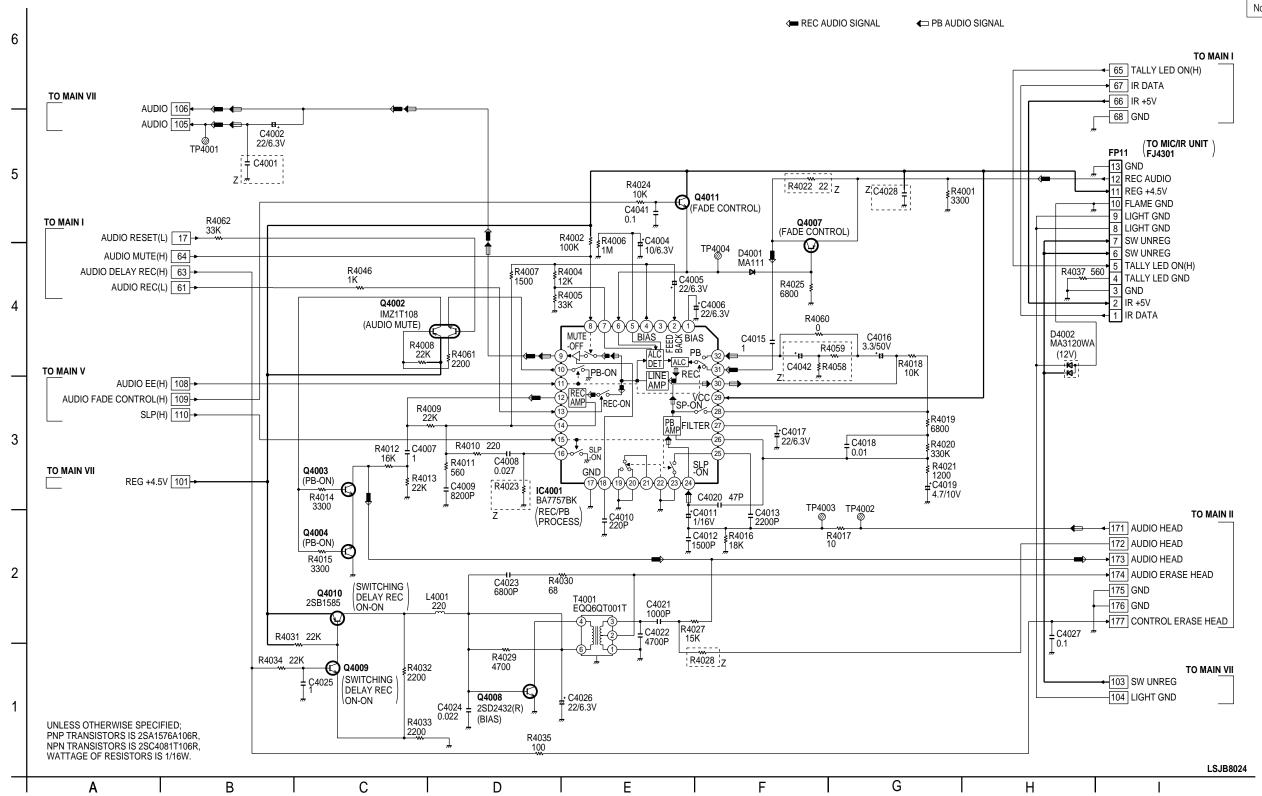


### 8.7. MAIN VI (AUDIO) SCHEMATIC DIAGRAM

COMPARISON CHART OF MODELS & MARKS

DTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F
Not Used	Z



NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 1.5A 63V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 1.5A 63V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 3A 32V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 3A 32V

 MODEL
 & MARKS

 MODEL
 MARK

 PV-D300
 A

 VM-D100
 B

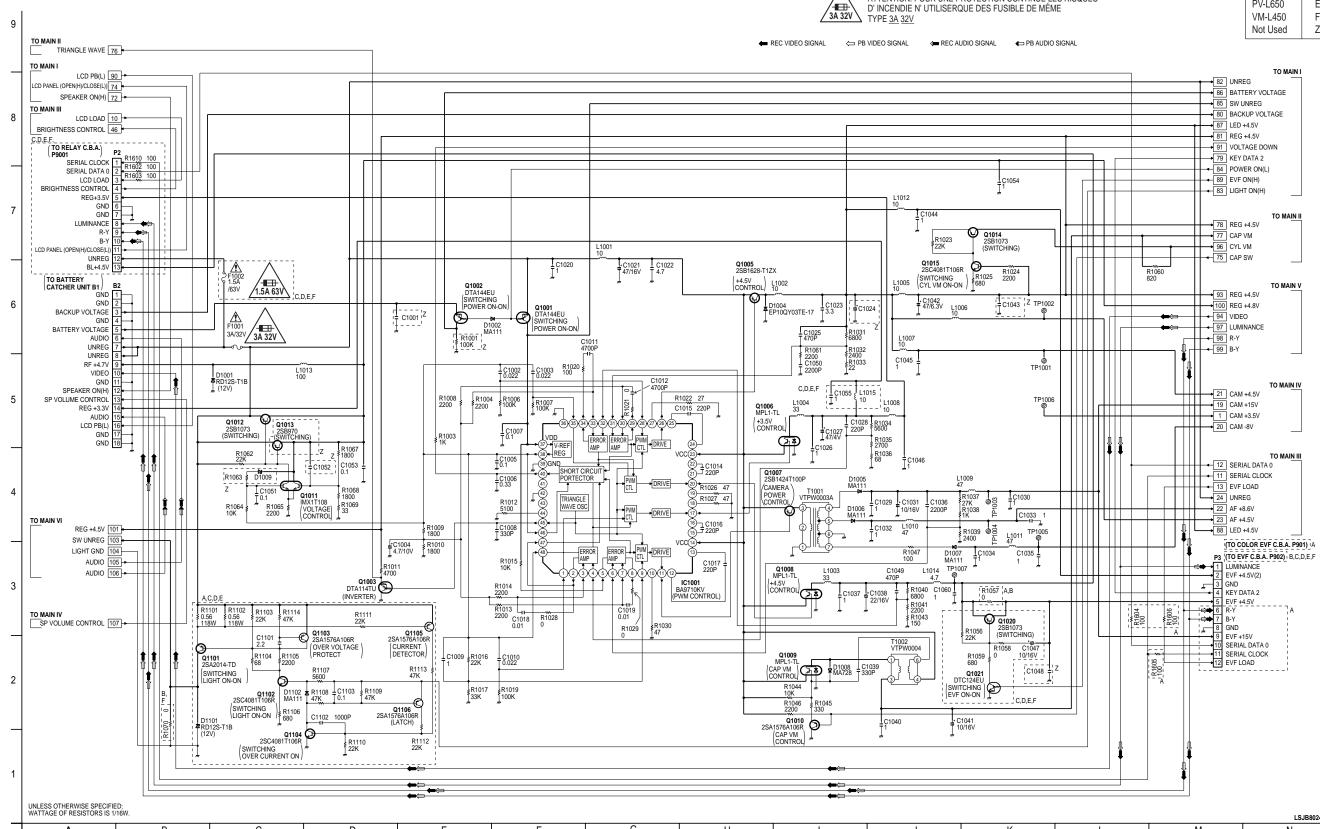
 PV-L550
 C

 PV-L600
 D

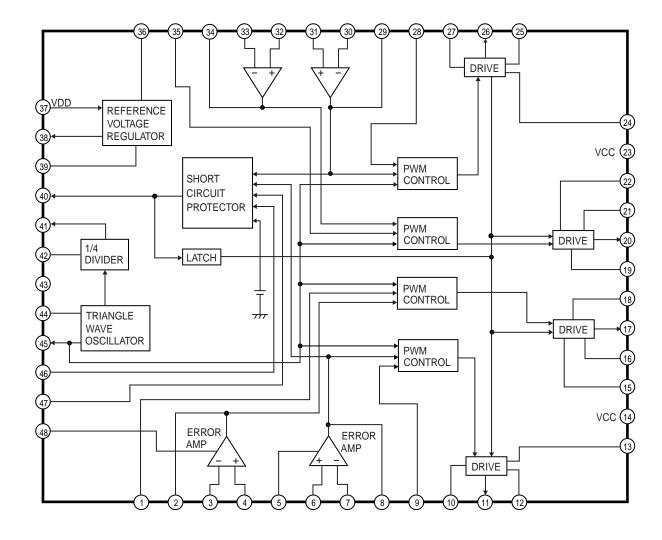
 PV-L650
 E

 VM-L450
 F

COMPARISON CHART



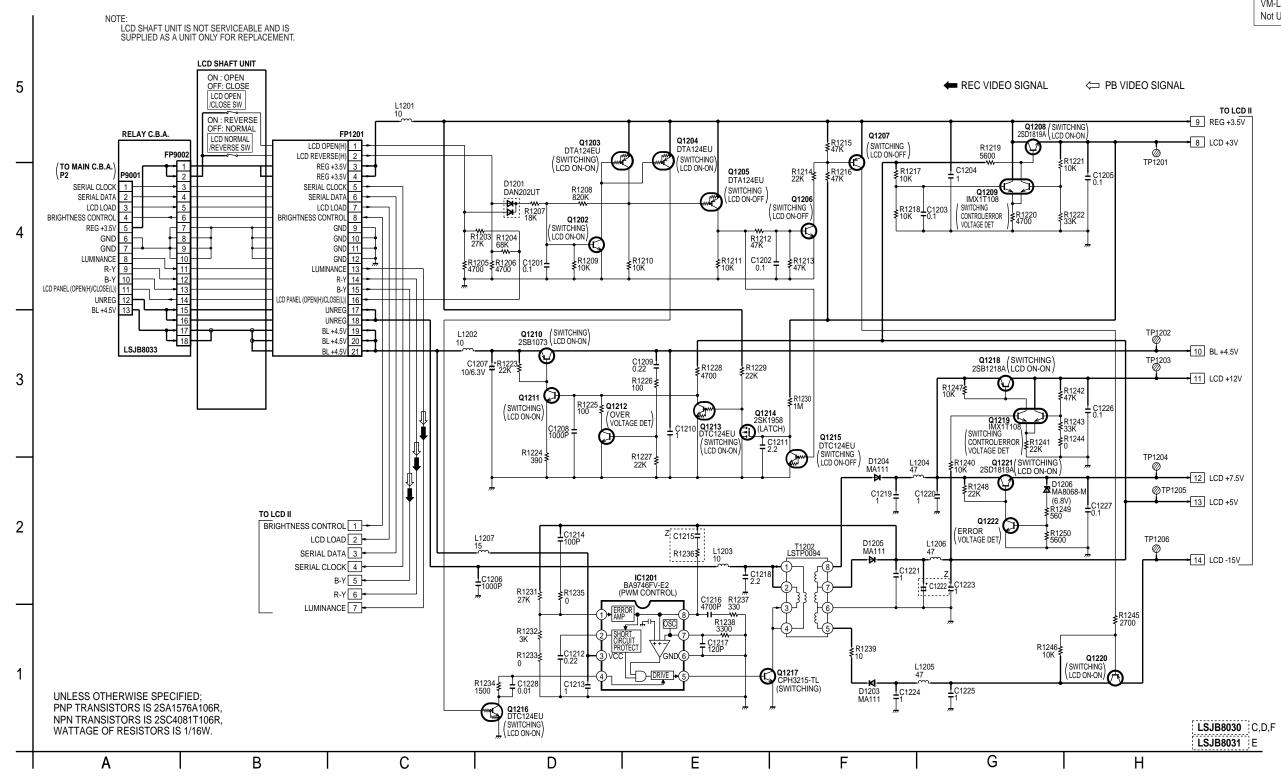
### IC1001 PWM CONTROL IC-DETAIL BLOCK DIAGRAM, BA9710KV



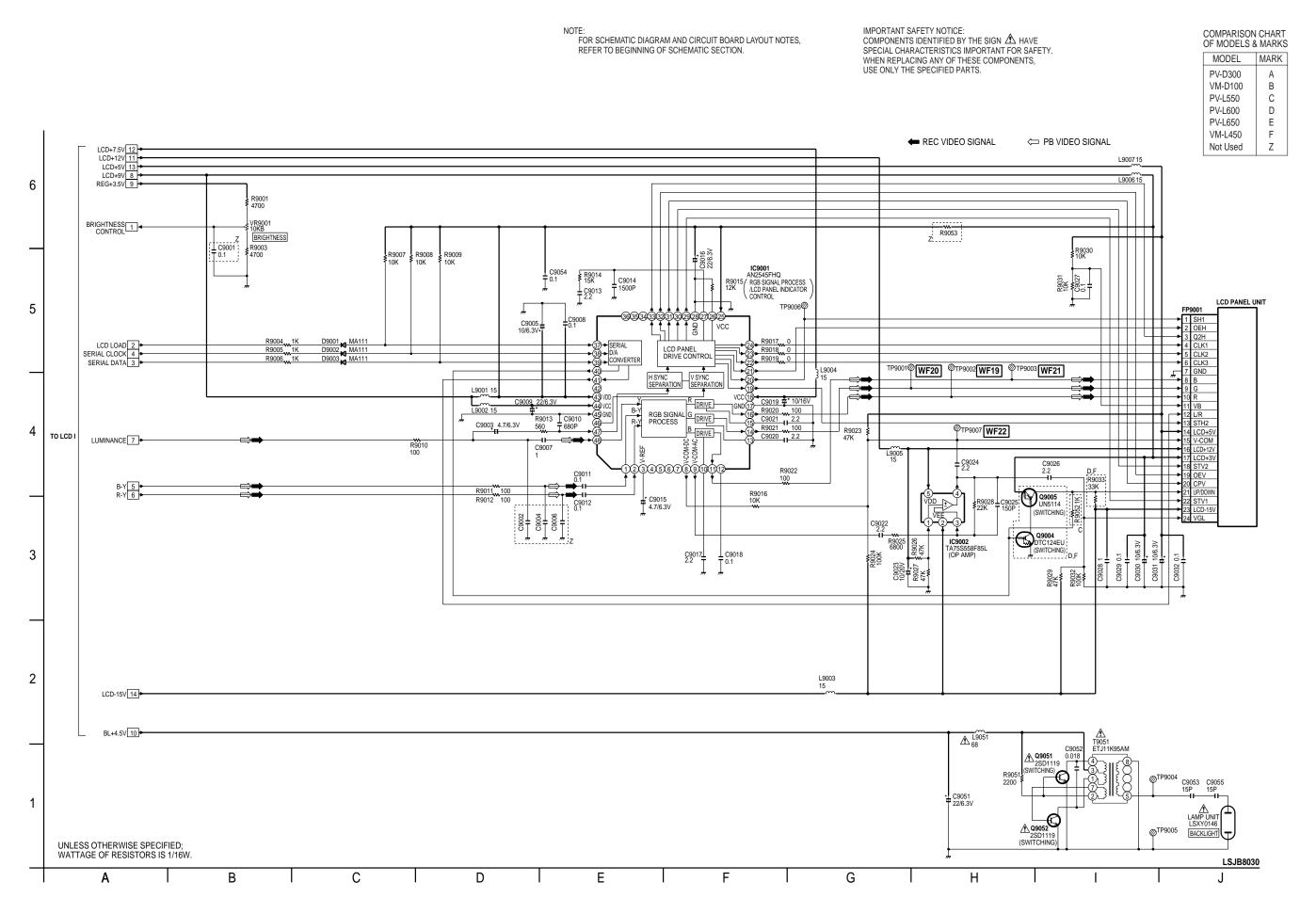
COMPARISON CHART OF MODELS & MARKS

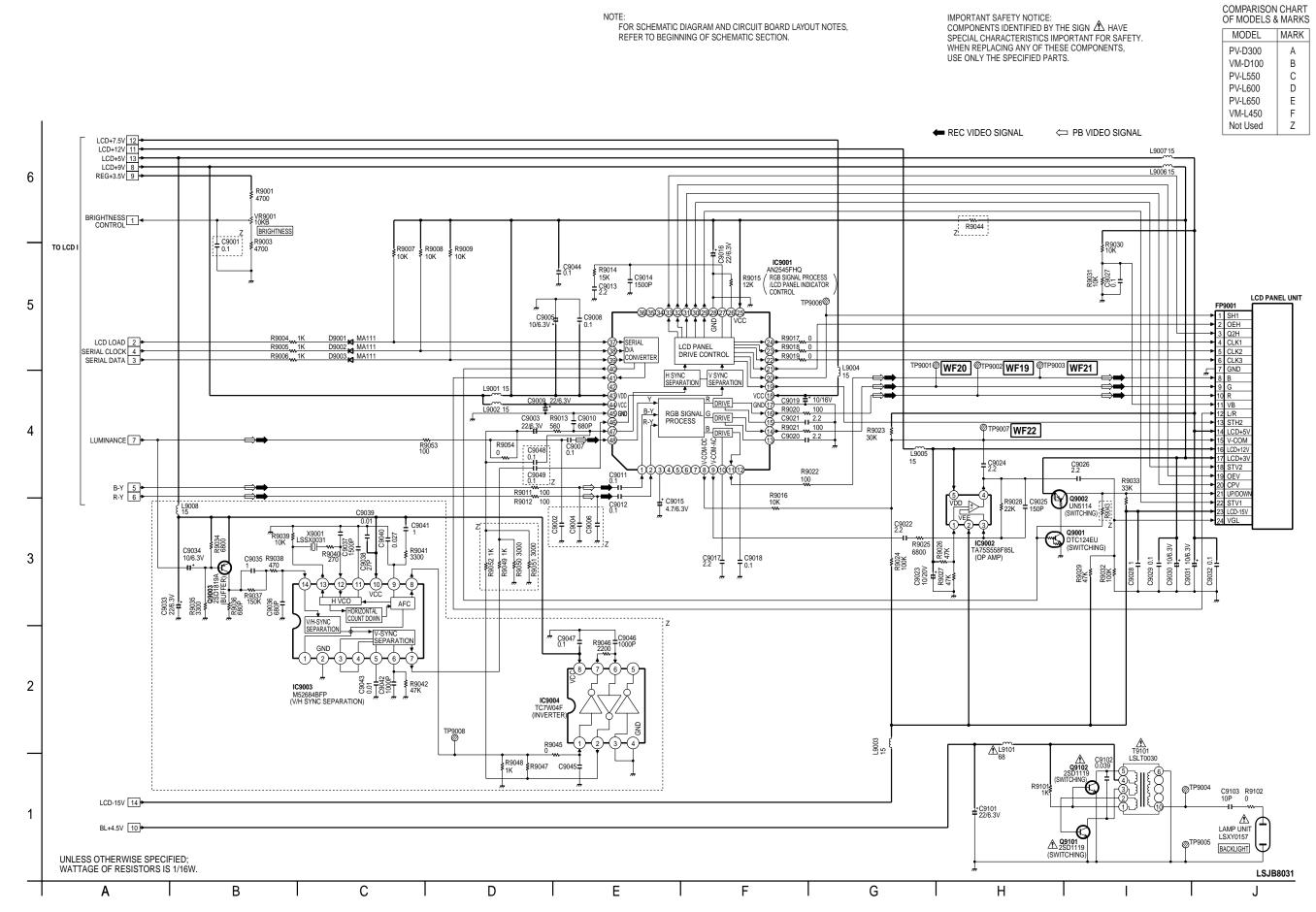
TE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

MODEL	MARK
PV-D300	A
VM-D100	В
PV-L550	C
PV-L600	D
PV-L650	E
VM-L450	F
Not Used	Z

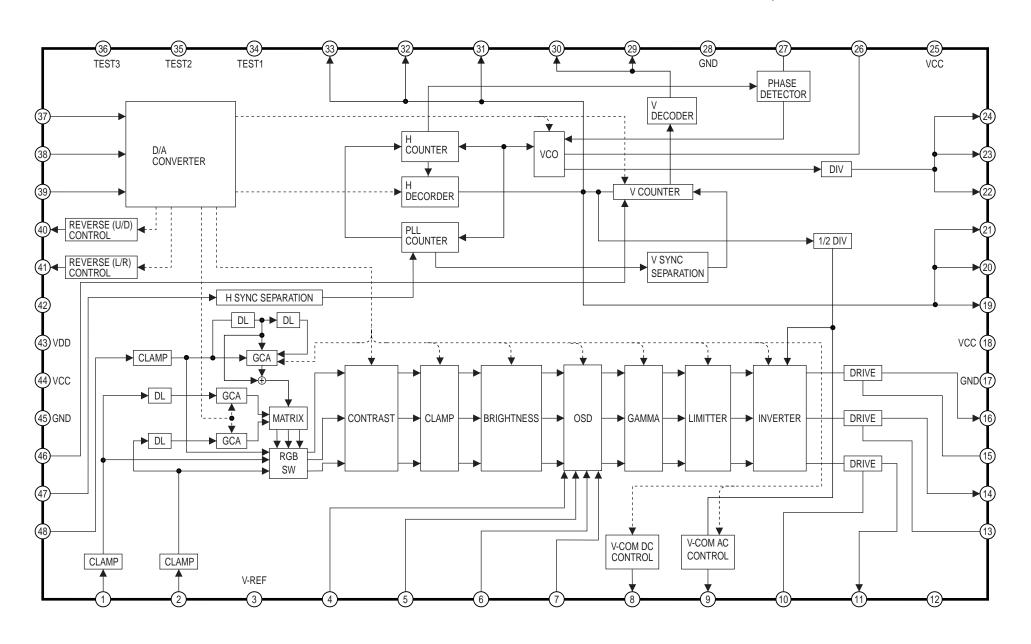


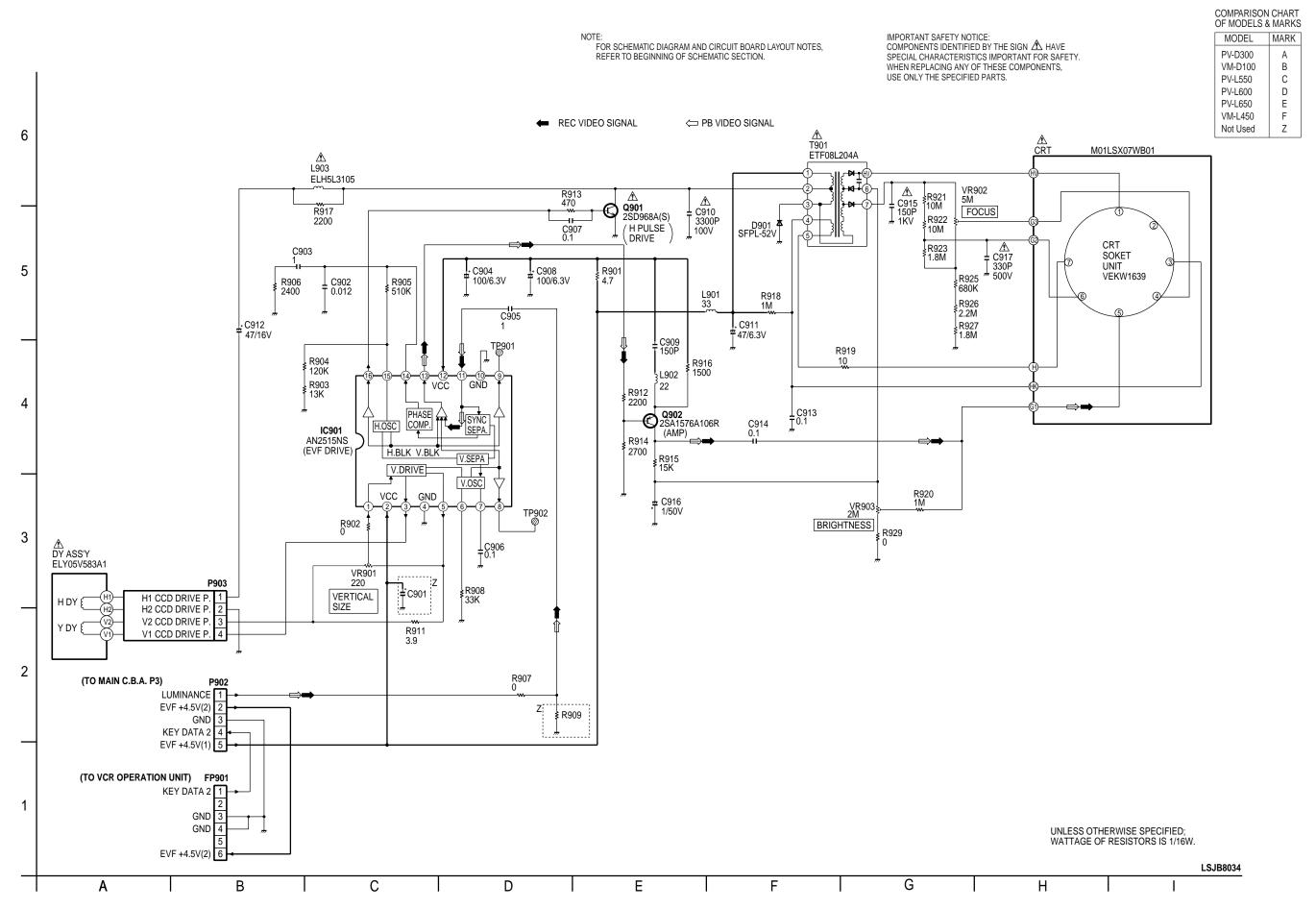
# 8.10. LCD II (LCD DRIVE) SCHEMATIC DIAGRAM (C, D, F)



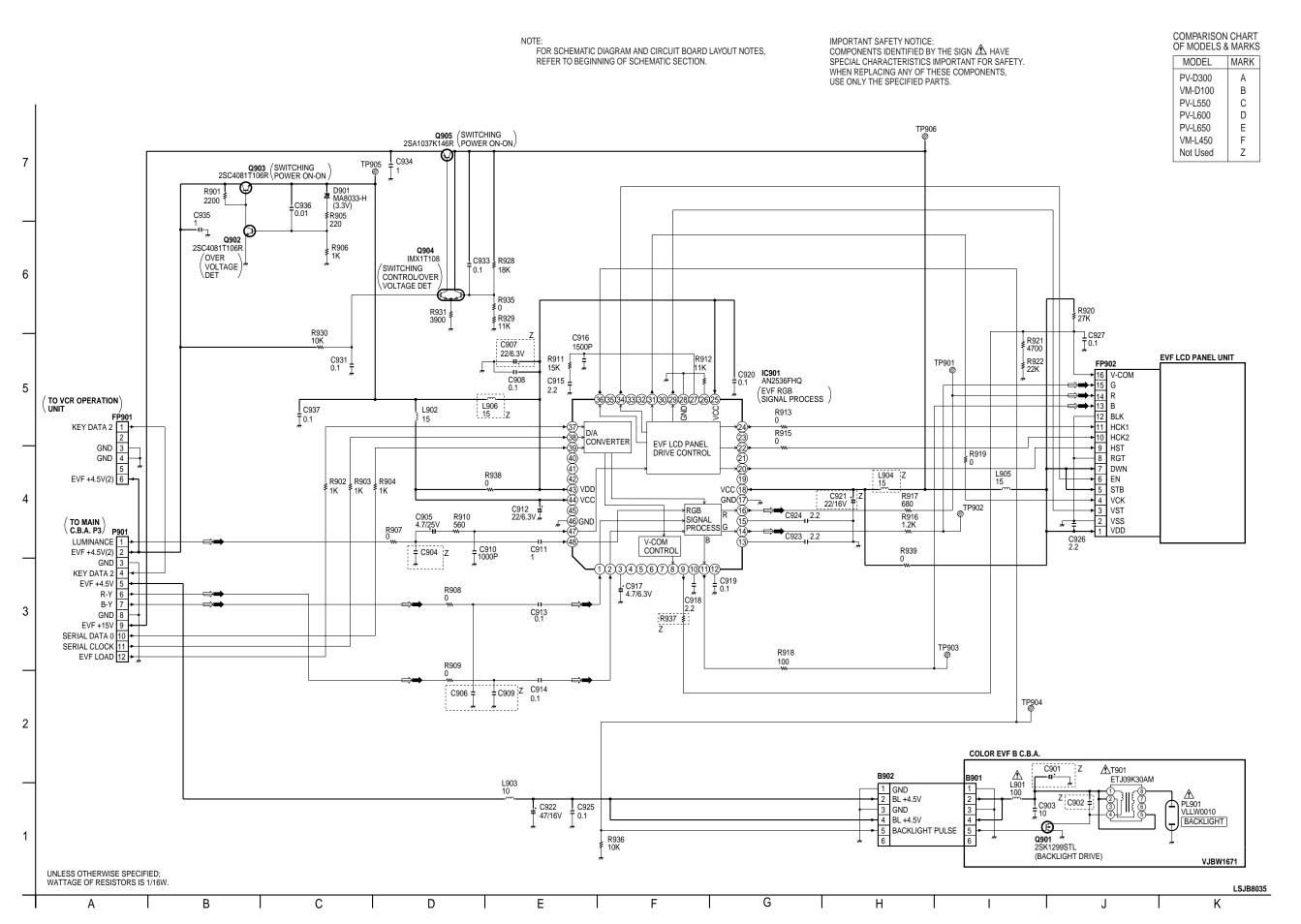


### IC9001 RGB SIGNAL PROCESS/LCD PANEL INDICATOR CONTROL IC-DETAIL BLOCK DIAGARM, AN2545FHQ

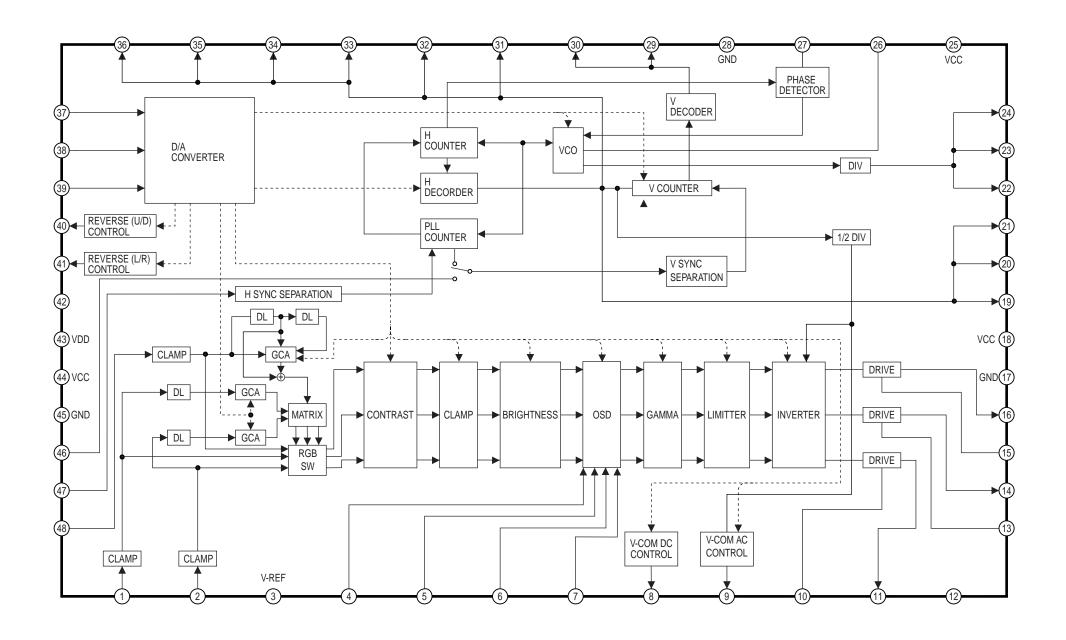




# 8.13. COLOR EVF SCHEMATIC DIAGRAM (A)



### IC901 RGB SIGNAL PROCESS/LCD PANEL INDICATOR CONTROL IC-DETAIL BLOCK DIAGARM, AN2536FHQ



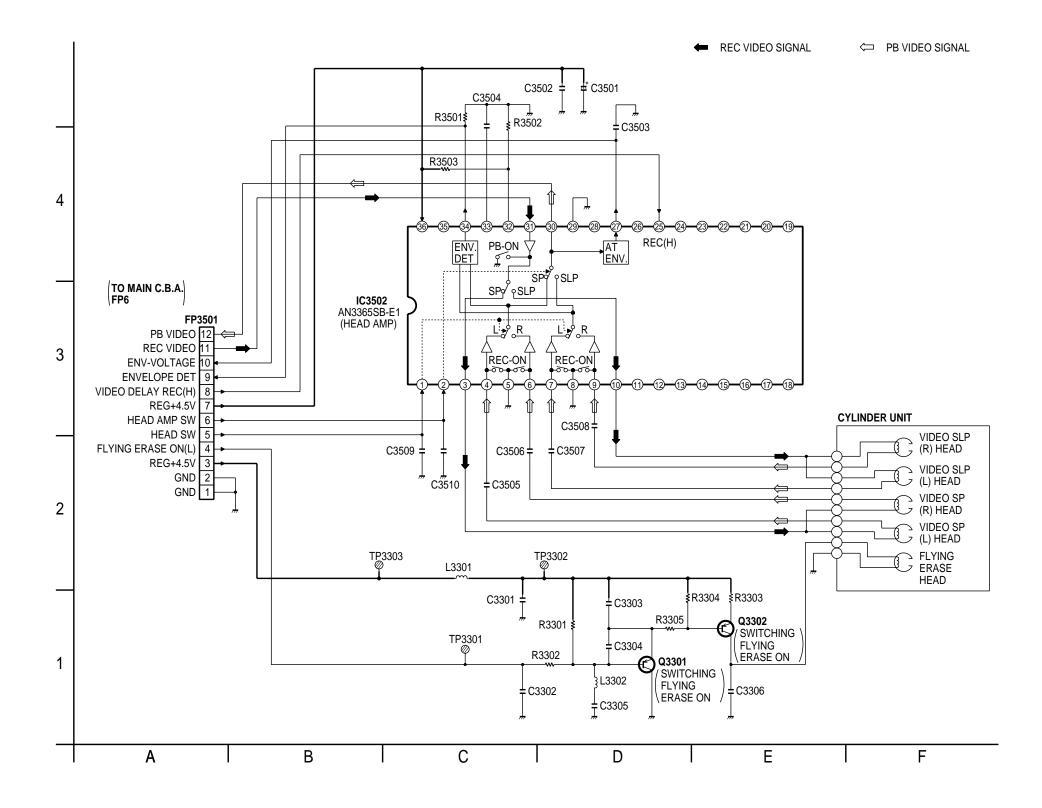
#### 8.14. HEAD AMP SCHEMATIC DIAGRAM

NOTE:

HEAD AMP C.B.A. WHICH IS LOCATED ON THE LOWER CYLINDER IS SUPPLIED AS A CYLINDER UNIT ONLY.
HOWEVER, IC3501 (AN3365SB-E1) IS AVAILABLE SEPARATELY AS A REPLACEMENT PART.

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.



FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,

REFER TO BEGINNING OF SCHEMATIC SECTION.

#### TOP OPERATION UNIT/SIDE L FPC UNIT MF VR UNIT COMPARISON CHART NOTE: MF VR UNIT IS NOT SERVICEABLE AND IS OF MODELS & MARKS "FOR REFERENCE ONLY" SUPPLIED AS A UNIT ONLY FOR REPLACEMENT. MARK MODEL "FOR REFERENCE ONLY" MF VR UNIT PV-D300 VM-D100 В TOP OPERATION UNIT IS NOT SERVICEABLE AND IS PV-L550 С SUPPLIED AS A UNIT ONLY FOR REPLACEMENT. (TO MAIN C.B.A. FP4) PV-L600 D GND PV-L650 Ε TOP OPERATION UNIT MANUAL FOCUS 1 VM-L450 MANUAL FOCUS 0 MANUAL Not Used FOCUS VR V-REF(H) R14 GND AF/MF SW 6 AF/MF (TO MAIN C.B.A. FP3) SLSW1 ON KEY DATA 3 SW5 EIS ⊸ OFF° REG +4.5V AUTO CAM KEY DATA 3 BACK LIGHT 1 AF GND V RFF(H) CAM KEY DATA 2 2 ZOOM SWITCH DET SW6 DIGITAL ZOOM KEY DATA 4 SW13 MENU 3 V REF(H) SCAN 4 SW11 GND Α В C D DISPLAY SP(L)/SLP(H) CAM KEY DATA 2 EJECT SV DISPLAY SW ON(L) KEY DATA 4 **VCR OPERATION UNIT** SCAN 1 8 POWER LED ON(L) LED +4.5V DEW SENSOR VCR OPERATION UNIT IS NOT SERVICEABLE AND IS SUPPLIED AS A UNIT ONLY FOR REPLACEMENT. "FOR REFERENCE ONLY" REC SW ON(L) POWER SW REC(L POWER SW REC LED ON(L) SCAN 2 A (TO COLOR EVF A ) VCR OPERATION UNIT LED +4.5V POWER LED ON(L) DEW SENSOR SP(L)/SLP(H (TO EVF C.B.A. FP901) R807 R808 R809 R810 AF GND SCAN 1 B,C,D,E,F KEY DATA 2 ZOOM SWITCH DET SW812 SW810 SW809 SW811 SW813 GND ( REW/ STOP FF/CUE PLAY STILL GND ( REVIEW EVF +4.5V(2) R806 NOTE: SIDE L FPC UNIT IS NOT SERVICEABLE AND IS В D SIDE L FPC UNIT **MECHANISM FPC UNIT** ZOOM SW MECHANISM FPC UNIT IS NOT SERVICEABLE AND IS "FOR REFERENCE ONLY" WIDE SUPPLIED AS A UNIT ONLY FOR REPLACEMENT. MECHANISM FPC UNIT TELE SW1 SW51° SW7 SW3l R3 (TO MAIN C.B.A. FP7) SAFETY SLOW FAST SAFETY TAB BROKEN(H) SLSW1 SP/SLP TAB SW MODE MODE SW POSITION 2 POWER LED MODE SW POSITION 1 AF GND SELECT ZOOM SWITCH DET GND SW V REF(H H.S.SHUTTER REG +4.5V GND SP(L)/SLP(H) GND SW10 TITLE CAM KEY DATA 2 SUPPLY REEL PULSE KEY DATA 4 CASSETTE UP/DOWN SW CASSETTE DOWN(L) POWER LED ON(L) GND GND SUPPLY REEL ' REC SW ON(L SENEOR SENSOR LED ON(H) POWER SW LED CAMERA GND DEW SENSOR SUPPLY PHOTO TR(L) 14 DEW SENSOR SLSW2 (SUPPLY PHOTO TR) POWER SCAN 1 SCAN 3 18 4 Α С D

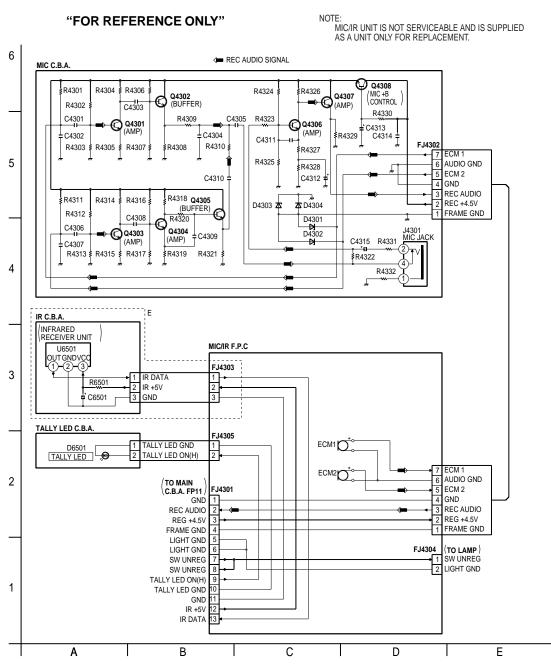
#### 8.16. MIC/IR / BATTERY CATCHER SCHEMATIC DIAGRAM

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D300	A
VM-D100	В
PV-L550	C
PV-L600	D
PV-L650	E
VM-L450	F
Not Used	Z

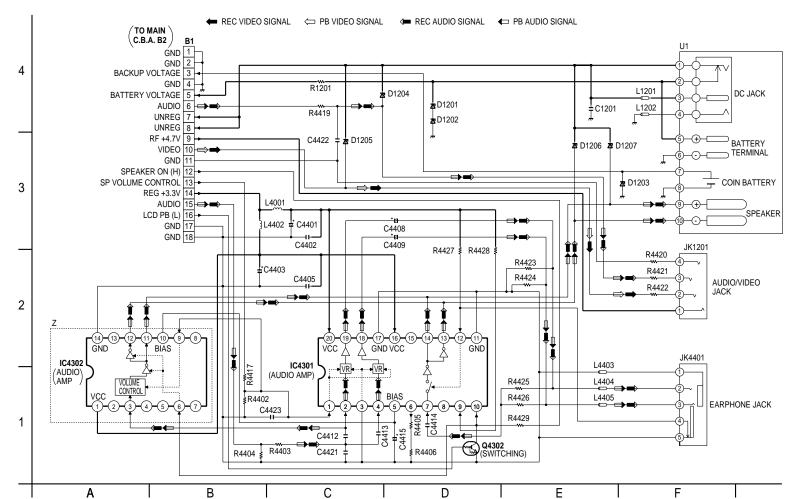
#### MIC/IR UNIT

# BATTERY CATCHER



"FOR REFERENCE ONLY"

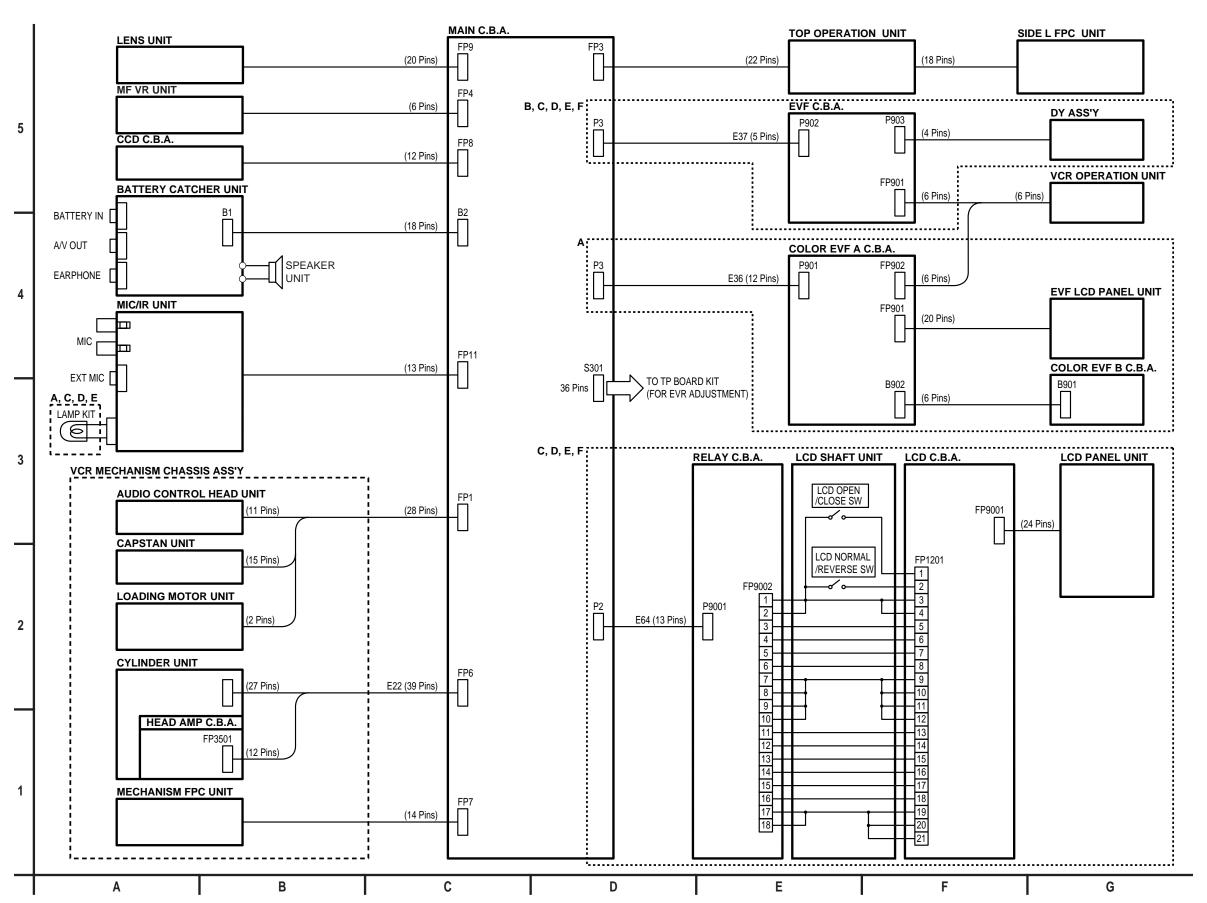
NOTE:
BATTERY CATCHER UNIT IS NOT SERVICEABLE AND IS
SUPPLIED AS A UNIT ONLY FOR REPLACEMENT.



NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

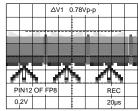
COMPARISON CHART

OF MODELS & MARK					
MODEL	MARK				
PV-D300	Α				
VM-D100	В				
PV-L550	С				
PV-L600	D				
PV-L650	E				
VM-L450	F				
Not Used	Z				

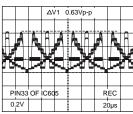


#### 8.18. SIGNAL WAVEFORM

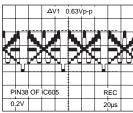
#### MAIN C.B.A.



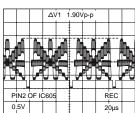
WF1



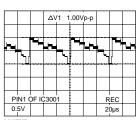
WF2



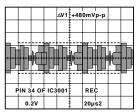
WF3



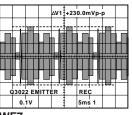
WF4



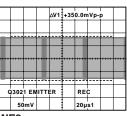
WF5



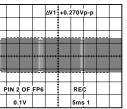
WF6



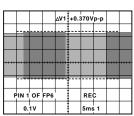
NF7



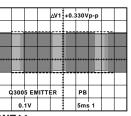
WF8



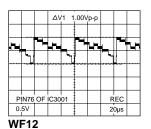
WF9



WF10



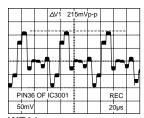
WF11



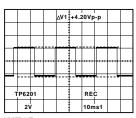
ΔV1 255mVp-p

PIN37 OF IC3001 REC
50mV 20μs

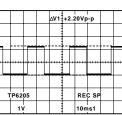
WF13



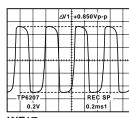
WF14



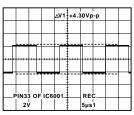
WF15



WF16

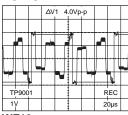


WF17

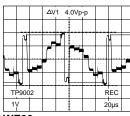


WF18

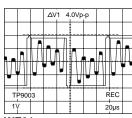
#### LCD C.B.A.



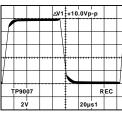
WF



WF20



WF



WF22

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

#### MAIN C.B.A. (CAMERA SECTION)

MODE CAMER	- ` <del></del>	MODE CAMERA	MODE CAMERA	MODE CAMERA	MODE CAMERA	MODE CAMERA	MODE CAMERA	MODE CAMERA
PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.	PIN NO.
IC301	55 3.5	110 1.4	11 0	66 3.5	5 1.6	60	29 4.4	Q302
1 0.1	56 0	111 3.3	12 0.2	67 0	6 1.5	61 3.5	30	E 1.5
2	57 3.5	112 1.9	13 3.5	68 1.9	7	62 3.5	31 2.1	C 3.2
3	58	113 0	14	69 3.5	8 0.7	63 3.5	32	B 2.2
4	59	114 3.5	15 0.4	70 1.7	9 0.7	64 3.5	33 2.0	Q303
5	60 0	115 0.4	16 3.4	71 0.2	10 0.6	IC603	34 2.0	E 1.8
6	61 3.5	116 0.4	17 3.5	72 3.5	11 0.6	1 -8.1	35 0	C 0
7	62	117 0.2	18 1.6	73 3.2	12 0.9	2 -8.0	36 4.4	B 1.2
9	63	118 0.3 119 0	19 0	74 3.2 75	13 0.2 14 0.4	3 -0.2	37 0.3 38 2.1	Q305 E 3.0
10	65	120 3.5	21 3.4	76 0.2	15 0.1	5 0.4	39 2.1	C 4.5
11	66	121 0.4	22	77 0	16	6 3.5	40 4.4	B 3.1
12	67	122 0.2	23 1.0	78 0	17 0.4	7 0.1	41 0	Q306
13	68	123 3.5	24 1.8	79 0.6	18 0.2	8 3.5	42 2.5	E 2.2
14	69 1.7	124 0.8	25 3.5	80 0.6	19	9 0.1	43 2.7	C 4.5
15 3.5	70 0	125 1.5	26 0	81 0	20 3.2	10 3.5	44 2.4	B 2.9
16 0	71 0	126 2.8	27 3.5	82 3.4	21	11	45 0.1	Q307
17	72 2.0	127 0.5	28 0	83 3.5	22 1.2	12 3.3	46 2.0	E 2.6
18	73 1.1	128 0.6	29 0	84 3.5	23 0	13 3.5	47 3.3	C 4.5
19 20	74 1.8 75 3.5	129 0.8 130 1.7	30 0.8 31 1.9	85 3.5 86	24 0 25 3.5	14 3.3 15 0	48 0.4 IC701	B 3.1 Q310
21	76 0	131 0.8	32 0.7	87 0	26 3.5	16 15.0	1 0.2	E 3.4
22	77 3.2	132 2.2	33 0.7	88 0	27 0.2	17 -7.6	2 0.4	C 4.5
23	78 2.9	133 0.5	34	89 0	28 0.2	18 -7.6	3	B 2.2
24	79 0	134 0	35	90 0	29 3.3	19 0	4 0.9	Q311
25	80 3.5	135 3.6	36 0.6	91 0	30 0.4	20 15.0	5 0.9	E 2.0
26	81 1.8	136 1.0	37 0.7	92 0	31 3.5	IC605	6 0.1	C 4.5
27 0	82 1.1	137	38 0.8	93	32 3.5	1 0	7 0.2	B 2.7
28 3.5	83 0	138 1.7	39 0	94 3.5	33 3.5	2 1.9	8 0.5	Q617
29	84 1.8	139 0	40 0	95	34 0	3	9 0	E 1.3
30	85 3.5	140 0 141 0	41 3.5 42 3.5	96	35 1.0 36 0.3	5 1.7	10 0.5 11 0.5	C 4.4 B 1.9
32	86 0	141 0 142 0	43 0	97 0	37 0.3	6 4.4	11 0.5	Q703
33	88	143 0	44 0.8	99 0	38 3.5	7 1.8	13 0.5	E 0
34	89 1.7	144 0	45 0.8	100 0	39	8 1.9	14 7.2	C 3.3
35	90 1.8	IC306	46 0.9	IC309	40 0	9 1.8	IC702	B 1.6
36	91 0	1	47 0	1 2.8	41	10 3.5	1 0.1	
37	92 0	2 3.5	48 0.5	2 1.5	42 0.7	11 0.2	2 0.1	TP601 1.6
38	93 3.5	3 0.3	49 3.3	3 1.9	43 1.1	12 0	3 0.5	
39 0	94	4 3.5	50 2.8	4 8.1	44 0.1	13	4 0.7	
40 0 41 0	95 96 3.5	5 3.5 6 0.7	51 2.6 52 0.4	5 1.3 6 1.4	45 0.2 46 0.2	14	5 0.9 6 0.1	
41 0	97 0.1	7 0.4	53 0.4	7 1.4	47 1.5	16	7 0.1	
43 0	98 1.1	8 3.5	54	8 2.5	48	17 3.3	8 0.5	
44	99 3.2	IC308	55	9 0.9	49 1.6	18 1.7	9 0	
45 0.1		1	56 3.5	10 1.2	50 0.3	19 3.3	10 0.6	
46 1.8	101 0.2	2 0.1	57 3.2	11 0	51	20 1.2	11 0.6	
47	102 0.4	3	58 0	12 0.7	52	21 0.3	12 0	
48	103 3.5	4	59 0	13 0.7	53	22 0.2	13 0.6	
49	104 3.5	5 2.8	60 0	14 0.3	54	23	14 7.2	
50 3.3		6 1.5	61 0	IC602	55	24 0.7	0004	
51 0 52 3.5	106 0 107 3.5	7 0.8 8 3.5	62 1.8 63 2.7	1 0 2 1.7	56 3.5 57 3.5	25 0.1 26 0	Q301 E 2.5	
53 0	107 3.3	9 0.2	64 0.9	3 1.7	58 1.6	27 0.4	C 4.5	
54 0.1	1	10 0	65 1.0	4 0.4	59 1.6	28 2.7	B 3.2	

### MAIN C.B.A. (POWER SUPPLY/VIDEO/AL

MODE	REC	PLAY
PIN NO.	INLO	ILAI
C1001		
1	0.2	0.1
2	1.7	1.7
3	1.2	1.3
4	1.3	1.2
5	1.0	5.6
6	1.3	1.3
7	1.2	1.2
8	2.1	1.9
9	1.5	1.4
10	0.2	0.2
11		
	6.9	6.9
12	7.3	7.3
13	3.9	4.0
14	7.0	7.1
15	2.4	2.4
16	6.9	6.9
17	6.6	6.7
18	0.4	0.4
19	0.5	0.5
20	6.5	6.6
21	6.8	6.7
22	1.8	1.8
23	7.1	7.1
24	1.9	1.9
25	6.8	6.6
26	6.5	6.5
27	0.4	0.4
28	0.2	0.2
29	1.6	1.6
30	0.9	
31	1.2	1.2
32	1.2	0.2
33	0.9	0.2
34	1.0	1.5
35	1.0	0.1
36	1.0	0
37	6.9	7.0
38	2.4	2.4
39	0	0
40	0	0
41		
42		
	0	0
43		
44	1.0	1.0
45	1.6	1.6
46	2.4	2.4
47	1.7	1.6
48	0	2.4
IC3001		
1	1.7	2.6
2	1.7	
	2 7	
3	3.7	0.1
4	0.1	0.1
5	2.1	1.9

\MODE PIN NO.\	REC	PLAY
6	4.5	4.5
7	2.0	2.3
8	0	0
9	2.1	0.3
10	2.1	2.1
11	0.3	1.1
12	0.0	2.1
13	1.5	2.2
14	2.0	2.2
15	2.7	1.6
16	0.2	2.2
17		
	2.2	2.1
18	2.2	2.1
19	2.5	3.0
20	2.1	1.5
21	2.2	2.7
22	2.7	2.5
23	3.4	2.0
24	2.7	2.9
25	2.5	2.8
26	0	0
27	3.2	3.6
28	4.4	4.4
29	2.3	2.3
30	0	2.1
31	0 2.1	2.0
32	2.9	3.0
33	0	0
34	2.4	2.9
35	4.5	4.5
36	2.5	2.5
37	2.5	2.5
38	0.3	0.4
39	2.8	2.7
40	0.2	2.3
41	1.3	1.3
42	0.8	2.2
43	3.0	3.0
44	0.9	2.8
45	0.2	0.2
46		
47		
48		
49	1.8	1.9
50	2.0	2.0
51	2.1	2.0
52		4.5
	4.5	
53	2.2	2.2
54	0	0
55	2.7	2.7
56	1.2	3.6
57	4.5	4.1
58	3.0	3.0
59	0 4.3	2.7
60		

MODE	REC	PLAY
PIN NO.\		
61	0.5	0.5
62	0	0.4
63	4.5	4.5
64	4.5	4.5
65	0.3	1.9
66		
67	0.6	0
68	3.6	3.6
69	2.1	3.6
70	4.5	4.5
71	4.5	4.5
72	1.8	4.5
73	2.1	2.8
74	0	0
75	0.6	0.2
76	2.3	3.7
77	0.3	0.1
78	0.1	0.1
79	2.5	2.9
80	2.1	2.8
IC3002		
1	1.0	2.1
2	0	0
3	4.5	4.5
4	1.9	2.8
5	0	0
6	1.8	2.6
7	1.6	1.6
8	2.8	2.8
9	4.5	4.5
10	0	0
11	2.5	2.8
12	2.4	2.5
13	1.8	2.9
14	0	0
15	2.5	2.7
16	4.5	4.5
17	0	0
18	2.0	2.2
19	2.3	2.3
20		2.0
	0.9	2.0
IC4001	0.0	
1	2.2	2.3
2	2.3	2.3
3		
4	2.3	2.3
5	0.6	0
6	0.2	1.3
7	1.7	1.7
8	0.1	0.1
9	2.3	2.3
10	4.0	3.7
11	3.7	0
12	2.3	2.3
13	0	4.5

MODE	REC	PLAY	1
PIN NO.	INLO	1 4/11	
14	2.3	2.3	
15	0.1	0	
16	0.1	1.4	
17	1.2	0 2.7	
18	2.9	2.7	
19	0	0	
20	0	0	
21			
23	0	0	
24	1.7	1.7	
25	0.4	1.1	
26	1.6	1.7	
27	4.5	4.5	
28	1.7	1.7	
29	4.5	4.5	
30	1.7	1.7	
31	2.3	2.3	
32	2.3	2.3	
Q1001 E	7.0	7.4	
C	7.2	7.1	
В	7.1	7.0	
Q1002	0.1	0.1	
E	0	0	
C	0	0	
В	-0.6	-0.6	
21003			
Е	2.3	2.3	
С	0	0	
В	1.6	1.6	
Q1005			
E	7.2	7.1	
С	4.5	4.5	
B Q1006	6.7	6.6	
E	7.2	0	
С	3.6	3.6	
В	6.8	0	
Α	0	0	
21007			
Е	0	0.1	
С	0	0.1	
В	7.0	6.9	
Q1008			
E	7.2	7.1	
В	4.6	4.6	
A	6.6	6.6	
Q1009	U	U	
E	6.1	0.1	
C	1.6	0.1	
В	6.8	6.7	
Α	0	0	

MODE	REC	PLAY
PIN NO.\		
Q1010		
Е	5.9	5.6
С	0	0
В	6.1	5.9
Q1011		
E1	1.9	1.9
C1	6.6	6.5
B1	2.4	1.3
E2	1.9	1.4
C2	0.2	4.8
B2	0.1	2.5
Q1012		
Е	7.2	7.1
С	4.8	4.8
В	6.6	6.5
Q1014		
E	7.2	7.0
С	7.1	7.0
В	1.5	6.3
Q1015		
Е	3.9	3.8
С	6.5	6.3
В	4.5	4.5
Q1020		
Е	4.6	4.6
С	0	2.0
В	4.6	4.6
Q1021		
E	0	0
С	4.6	4.4
В	0.1	0.9
Q1101	011	
E	7.2	7.1
С	1.7	1.5
В	7.2	7.1
Q1102	1.4	
E E	0	0
С	7.8	7.1
В	-0.1	0
Q1103	-0.1	0
	7 2	7 1
E C	7.2	7.1
В		0.1
	7.2	0.1
Q1104	0	
E	0	0
С	0	0.1
B	0	0
Q1105		
E	7.2	7.1
С	0	0.7
В	7.2	0.3
Q1106		
E	0	0
С	0.2	0
В	0.1	0

MODE	REC	PLAY
PIN NO.	INLO	1 =/\(1
Q3003		
	4.4	0.0
E	4.1	2.6
С	0	1.6
В	4.3	2.0
Q3004		
E	0	1.9
С	3.4	3.8
В	3.3	2.6
Q3005		
Е	0	3.2
С	4.5	4.5
В	3.4	3.8
Q3021		
Е	1.2	1.2
С	4.8	4.8
В	1.7	1.7
Q3022	1.7	1.7
	4 7	
E	1.7	0.1
С	4.8	4.8
В	2.3	0.4
Q3027		
E C	1.7	1.8
С	4.8	4.8
В	2.3	2.3
Q3028		
Е	1.9	1.9
С	4.5	4.5
В	2.5	2.5
Q3029		
E	1.9	1.9
С	4.5	4.6
В	2.5	2.5
Q4002	۷.5	2.0
E1	5.3	2 =
		3.5
C1	4.4	3.6
B1	4.6	3.8
E2	4.5	4.0
C2	1.4	4.5
B2	4.6	4.5
Q4003		
Е	0.2	0
С	0	0
В	0.5	0.8
Q4004	5.0	- 3.5
E	0.2	0
C		
	0	0
B	-0.5	0.8
Q4007	_	
E	0	0
С	-0.2	-0.5
В	0.1	1.1
Q4008		
Е	0	0
С	0	0
	0	

MODE PIN NO.\	REC	PLAY	MODE PIN NO.\	REC	PLAY
23003			Q4009		
Е	4.1	2.6	E	0	0.4
С	0	1.6	C	0.2	4.3
В	4.3	2.0	В	0.2	0.1
23004	7.0	2.0	Q4010	0.2	0.1
E	0	1.9	E	4.6	4.5
С	3.4	3.8	C	0	0
В	3.3		В	4.3	
Q3005	3.3	2.6		4.3	5.0
	0	2.0	Q4011	0.0	4.4
E	0	3.2	E	0.2	1.4
С	4.5	4.5	С	4.5	4.5
В	3.4	3.8	В	0.2	1.9
23021			<b>TD</b> (00)		
E	1.2	1.2	TP1001	4.6	4.6
С	4.8	4.8	TP1002	4.6	4.6
В	1.7	1.7	TP1003		15.0
23022			TP1004	8.1	8.2
E	1.7	0.1	TP1005		-8.1
С	4.8	4.8	TP1006	3.6	3.6
В	2.3	0.4	TP1007	4.6	4.6
ე3027			TP3001	2.7	2.7
Е	1.7	1.8	TP3002	2.6	2.5
С	4.8	4.8	TP3003	0.4	2.0
В	2.3	2.3	TP3004	2.9	3.9
23028			TP3005	3.2	3.6
Е	1.9	1.9	TP3006	2.6	0.4
С	4.5	4.5	TP4001	1.4	1.4
В	2.5	2.5	TP4002		0
Q3029			TP4003		0.1
E	1.9	1.9	TP4004	0.1	1.3
C	4.5	4.6		J.,	
В	2.5	2.5			
Q4002					
E1	5.3	3.5			
C1	4.4	3.6			
B1	4.4	3.8			
E2	4.6	4.0			
C2					
	1.4	4.5			
B2	4.6	4.5			
24003	0.2	_			
E	0.2	0			
С	0	0			
B	0.5	0.8			
24004	0.7	_			
E	0.2	0			
С	0	0			
В	-0.5	8.0			
Q4007					
Е	0	0			
С	-0.2	-0.5			
	0.1	1.1			
В	0.1				
	0.1				
В	0	0			
B Q4008		0			

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

#### MAIN C.B.A. (SYSTEM CO ION)

	_	<b>,</b> -	_	
MODE PIN NO.	REC	PLAY	STOP	MOE PIN N
IC2001				5
1	2.2	2.0	2.0	50
2	0.6	0.6	0.1	5
3	0.6	0.7	0.1	58
4	2.9	3.0	2.9	59
5	0	0	0	60
6	0	0	0	6
7	0.1	0.1	4.6	62
8	2.3	2.3	2.3	6
9	2.3	2.3	2.3	64
10	2.2	2.2	2.3	IC20
11	2.3	2.3	2.3	1
12	2.3	2.3	2.3	2
13	1.8	2.3	2.3	3
14	7.1	7.0	7.3	4
15	1.6	1.9	0	5
16	2.1	2.0	0	6
17	1.6	1.9	0	7
18	0.4	0.9	0.7	8
19	0.6	0.5	0.7	9
20	0.4	0.7	0.1	1(
21	6.8	6.6	6.8	1
22	6.7	6.5	6.8	1:
23	6.7	6.6	6.8	1;
24	0.6	0.6	0.1	14
25	0.4	0.6	0.1	IC20
26	0.4	1.3	0	1
27	1.6	1.1	4.2	2
28	1.7	7.0	4.2	3
29	1.6	2.0	4.3	4
30	0.7	2.0	0	5
31	0.7	0.9	0	6
32	0.7	0.9	0	7
33	1.6	1.8	6.5	8
34	2.2	2.2	2.2	9
35	2.2	0.7	2.2	10
36	1.8	0.8	1.7	1
37	1.7	0.8	1.7	
38	1.2	1.2	1.2	1:
39	1.2	1.2	1.2	14
40	0.1	0.7	2.3	IC60
41	0	0	0	1
42	0	0	0	2
43	0	0.1	0	3
44	2.4	0.6	4.2	4
45	0.7		0.1	5
46	0.6	0.7	0.1	6
47	0.8		0.2	t
		0.6		7
48 49	2.2	2.1	2.3	8
	6.0	5.4	7.2	
50	2.3	2.3	2.3	10
51	0	0	0	
52	4.5	4.5	4.5	1:
53	2.2	1.6	0.7	1;
54				14

\ <u>MODE</u> PIN NO.\	REC	PLAY	STOP
55	0.6	0.7	0.7
56	0	0	0
57	2.3	2.3	2.3
58	2.3	2.3	2.3
59	2.3	1.3	1.9
60	2.3	2.3	2.3
61	2.1	2.2	2.3
62			
63			
64			
IC2002			
1	0.7	0.9	0
2	1.4	4.9	3.4
3	0.7	0.9	0.3
4	1.4	1.1	3.4
5	0.7	0.9	0
6	1.3	4.2	3.4
7	1.6	1.1	6.4
8	0.7	1.1	0
9	0.5	0.8	0.1
10	0.7	0.9	0
11	0.5	0.4	0.1
12	0.7	0.9	0
13	0.4	0.4	0.1
14	0	0	0
IC2003			
1	0	1.9	0
2	6.8	2.5	6.8
3	0.0	4.6	0.3
<u></u>	6.8		
		8.9	6.8
5	0	2.0	0
6	6.8	9.2	6.8
7	7.2	7.0	7.2
8	0	1.9	0
9	0.7	0.4	0.7
10	0	1.9	0
11	0.7	0.9	0.7
12	0	2.0	0
13	0.7	0.4	0.7
14	0	0	0
IC6001	-		
1	2.7	2.7	3.7
2	4.5	2.2	3.3
3			
	4.1	4.6	0.3
4	0.3	0.3	0.3
5	3.2	3.3	3.3
6	4.5	4.5	4.5
7	0.1	0.1	0.1
8	0.1	0.1	0.1
9	3.7	3.7	0.2
10	3.8	0.1	0
11	3.5	4.6	3.5
12	1.8	1.5	1.2
13	0.1	0.1	0.1
1.3			

<u>MODE</u> PIN NO.\	REC	PLAY	STOP	
15	4.2	4.5	3.7	
16	4.6	4.5	4.6	
17	4.5	4.4	4.5	
18	0.1	0.1	0	
19	0.1	0.1	4.6	
20	2.5	0.1	4.5	
21	0.1	0.1	2.3	
22	0.1	0.1	0.1	
23	4.6	2.3	4.6	
24	0.1	0.1	0.1	
25	4.4	4.5	4.6	
26	4.6	0	0.1	
27	4.6	0	0	
28				
29	0	4.5	4.6	
30	0.3	0.3	0.2	
31				
32	4.6	2.0	4.6	
33 34	2.2	2.0	2.3	
	2.8	-	3.7	
35				
36	4.6	4.5	4.6	
37	2.3	2.3	1.5	
38	1.6	2.3	2.3	
39	0	0	0	
40	0.3	0.8	8.0	
41				
42	4.6	4.5	4.6	
43	4.1	0	3.9	
44	4.6	0	1.6	
15	0	0	1.5	
45				
46				
46 47		4.5	4.6	
46 47 48	4.6 0			
46 47 48 49	4.6 0 4.6	4.5	4.6 0 0	
46 47 48 49 50	4.6 0 4.6 2.1	4.5 0 0	4.6 0 0 3.0	
46 47 48 49 50 51	4.6 0 4.6	4.5 0 0	4.6 0 0 3.0 4.6	
46 47 48 49 50 51 52	4.6 0 4.6 2.1 4.6 2.3	4.5 0 0 0 4.5	4.6 0 0 3.0 4.6 2.2	
46 47 48 49 50 51 52 53	4.6 0 4.6 2.1 4.6	4.5 0 0 0 4.5	4.6 0 0 3.0 4.6	
46 47 48 49 50 51 52 53 54	4.6 0 4.6 2.1 4.6 2.3	4.5 0 0 0 4.5	4.6 0 0 3.0 4.6 2.2	
46 47 48 49 50 51 52 53	4.6 0 4.6 2.1 4.6 2.3 2.3	4.5 0 0 0 4.5 0 2.3	4.6 0 0 3.0 4.6 2.2 2.3	
46 47 48 49 50 51 52 53 54	4.6 0 4.6 2.1 4.6 2.3 2.3  0	4.5 0 0 0 4.5 0 2.3	4.6 0 3.0 4.6 2.2 2.3	
46 47 48 49 50 51 52 53 54 55	4.6 0 4.6 2.1 4.6 2.3 2.3	4.5 0 0 0 4.5 0 2.3	4.6 0 0 3.0 4.6 2.2 2.3	
46 47 48 49 50 51 52 53 54 55	4.6 0 4.6 2.1 4.6 2.3 2.3  0	4.5 0 0 0 4.5 0 2.3  0	4.6 0 3.0 4.6 2.2 2.3  0 4.6	
46 47 48 49 50 51 52 53 54 55 56	4.6 0 4.6 2.1 4.6 2.3 2.3  0 0.1 0.1	4.5 0 0 0 4.5 0 2.3  0 0	4.6 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1	
46 47 48 49 50 51 52 53 54 55 56 57	4.6 0 4.6 2.1 4.6 2.3 2.3  0 0.1 0.1 0.1	4.5 0 0 4.5 0 2.3  0 0 1.4 0 0	4.6 0 0 3.0 4.6 2.2 2.3  0 4.6 0	
46 47 48 49 50 51 52 53 54 55 56 57 58	4.6 0 4.6 2.1 4.6 2.3 2.3  0 0.1 0.1	4.5 0 0 4.5 0 2.3  0 0 1.4 0	4.6 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	 4.6 0 4.6 2.1 4.6 2.3 2.3  0 0.1 0.1 0.1 0.3 3.2	4.5 0 0 4.5 0 2.3  0 0 1.4 0 0 1.4 4.1	4.6 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1 0 0.1 0.1 3.5	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	 4.6 0 4.6 2.1 4.6 2.3 2.3  0 0.1 0.1 0.1 0.3 3.2 0.1	4.5 0 0 4.5 0 2.3  0 0 1.4 0 0 1.4 4.1	4.6 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1 0 0.1 0.1 3.5	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	 4.6 0 4.6 2.1 4.6 2.3 2.3  0 0.1 0.1 0.1 0.3 3.2 0.1	4.5 0 0 4.5 0 2.3  0 0 1.4 0 0	4.6 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1 0 0.1 0.1 3.5 0.3 4.2	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	 4.6 0 4.6 2.1 4.6 2.3 2.3  0 0.1 0.1 0.1 0.3 3.2	4.5 0 0 4.5 0 2.3  0 0 1.4 0 0 1.4 4.1 0.1 0.3 2.2	4.6 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1 0 0.1 0.1 3.5 0.3 4.2	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	 4.6 0 4.6 2.1 4.6 2.3 2.3  0 0.1 0.1 0.1 0.3 3.2 0.1	4.5 0 0 4.5 0 2.3  0 0 1.4 0 0 1.4 4.1 0.1 0.3	4.6 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1 0 0.1 0.1 3.5 0.3 4.2	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	4.6 0 4.6 2.1 4.6 2.3 2.3 0 0.1 0.1 0.1 0.3 3.2 0.1 0.3 2.2	4.5 0 0 4.5 0 2.3  0 0 1.4 0 0 1.4 4.1 0.1 0.3 2.2	4.6 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1 0 0.1 0.1 3.5 0.3 4.2	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	4.6 0 4.6 2.1 4.6 2.3 2.3 0 0.1 0.1 0.1 0.3 3.2 0.1 0.3 2.2 0.7 2.3	4.5 0 0 0 4.5 0 2.3  0 0 1.4 0 0 1.4 4.1 0.1 0.3 2.2 0.78 2.3	4.6 0 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1 0.1 0.1 3.5 0.3 4.2 0.4 0.4 2.3	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67	4.6 0 4.6 2.1 4.6 2.3 2.3 0 0.1 0.1 0.1 0.3 3.2 0.1 0.3 2.2 0.7	4.5 0 0 0 4.5 0 2.3  0 0 1.4 0 0 1.4 4.1 0.1 0.3 2.2 0.78	4.6 0 0 3.0 4.6 2.2 2.3  0 4.6 0 0.1 0.1 0.1 3.5 0.3 4.2 0.4	

MODE PIN NO.	REC	PLAY	STOP
70	2.1	2.3	2.3
71	0	0	0
72	1.0	1.1	2.3
73	4.6	4.6	4.6
74	2.7	2.2	2.3
75	2.0	2.2	2.3
76	2.3	3.8	2.3
77	0.2	0.1	0.1
78	4.0	4.4	4.4
79	2.1	2.1	2.4
80	2.4	3.9	0.4
81	3.9	4.5	4.3
82	3.8	0	4.3
83	0.2	0.1	0.1
84	3.9	4.0	4.4
85	3.7	4.0	4.1
86	0.3	3.5	3.1
87			
	6.2	1.1	0.1
88	0.1	0.1	0.1
89	0.6	4.5	0.7
90	2.4	1.6	4.0
91	0.3	4.6	0.1
92	0.1	4.6	4.6
93	0.4	0.1	0.5
94	4.5	0.1	4.6
95	4.5	4.5	4.6
96	4.5	0.1	4.6
97	4.6	0.1	4.6
98	2.3	2.3	4.6
99	4.6	0.1	0.1
100	0.3	1.4	0.2
	0.3	1.4	0.2
IC6002	4.4	4.4	4.4
1	4.4	4.4	4.4
2	4.5	4.5	4.2
3			
4	0	0	4.4
IC6005			
1	0.9	0.8	0.2
2	1.9	1.0	0.5
3	1.0	0.9	0.4
4	0	0	0
5	0.3	0.3	0.2
6	4.5	4.5	4.5
7	7.0	1.2	3.8
8	4.3	4.2	4.2
IC6006	т.5	7.4	7.4
1	0	0	0
2	6.5	6.5	6.6
3	4.5	4.5	4.5
IC6007			
1	0	0	0
2	0	0	0
3	0.6	2.0	0.5
4	6.5	6.5	6.6
	6.5	6.5	6.6

MODE PINNO.         REC         PLAY         STOP           6         0.1         0.1         0.1           7         0         0         0           8         0         0         0           9         0         0         0           10         0         0         0           11         0         0.1         0           12         4.5         4.6         4.5           13         0         0         0           14         0.4         2.0         0.6           15         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           17         1.2         0         0				
PINNO.         0         0.1         0.1         0.1           7         0         0         0         0           8         0         0         0         0           9         0         0         0         0           10         0         0         0         0           11         0         0.1         0         0           12         4.5         4.6         4.5         13         0         0         0           14         0.4         2.0         0.6         15         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <	\MODE	REC	PLAY	STOP
6 0.1 0.1 0.1 7 0 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0		• • • •
7         0         0         0           8         0         0         0           9         0         0         0           10         0         0         0           11         0         0.1         0           12         4.5         4.6         4.5           13         0         0         0           14         0.4         2.0         0.6           15         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           17         1.2         0         1.2           2         0         0         0           26004         1         0         1.4		0.1	0.1	0.1
8         0         0         0           9         0         0         0           10         0         0         0           11         0         0.1         0           12         4.5         4.6         4.5           13         0         0         0           14         0.4         2.0         0.6           15         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           17         1.2         0         1.2           2         0         0         0           26004         1         0         0           26005         2         0         0 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
9         0         0         0           10         0         0         0           11         0         0.1         0           12         4.5         4.6         4.5           13         0         0         0           14         0.4         2.0         0.6           15         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           17         1.2         0         1.2           2         0         0         0           4         2.6         0         4.5           4.5         4.5         4.5         4.5           4.5         4.5         4.5         4.5     <				
10         0         0         0           11         0         0.1         0           12         4.5         4.6         4.5           13         0         0         0           14         0.4         2.0         0.6           15         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           15         0         0         0           20         0         0         0           20         0         0         0           26005         0         0         0				
11       0       0.1       0         12       4.5       4.6       4.5         13       0       0       0         14       0.4       2.0       0.6         15       0       0       0         16       0       0       0         16       0       0       0         17       1.2       0       1.2         2       0       0       0         3       0       0       0         4       2.6       0       4.2         4       2.6       0       4.2         Q6004	9	0	0	0
12       4.5       4.6       4.5         13       0       0       0         14       0.4       2.0       0.6         15       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         17       0       0       0         2       0       0       0         26004	10	0	0	0
13         0         0         0           14         0.4         2.0         0.6           15         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           17         1.2         0         0           2         0         0         0           3         0         0         0           4         2.6         0         4.2           2         0         0         0           4         2.6         0         4.2           2         0.1         0.1         0           26004         0         0         0           E         4.6         4.6         4.5           4.5         4.5         4.5         4.5           B         4.6         0         0           Q6008         0         0         0     <	11	0	0.1	0
13         0         0         0           14         0.4         2.0         0.6           15         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           16         0         0         0           17         1.2         0         0           2         0         0         0           3         0         0         0           4         2.6         0         4.2           2         0         0         0           4         2.6         0         4.2           2         0.1         0.1         0           26004         0         0         0           E         4.6         4.6         4.5           4.5         4.5         4.5         4.5           B         4.6         0         0           Q6008         0         0         0     <	12	4.5	4.6	4.5
14       0.4       2.0       0.6         15       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         16       0       0       0         1       1.2       0       1.2         2       0       0       0         3       0       0       0         4       2.6       0       4.2         Q6004				
15         0         0         0           16         0         0         0           IC6203         Image: color or				
16         0         0         0           IC6203         1         1.2         0         1.2           2         0         0         0         0           3         0         0         0         4.2           Q6004				
IC6203				
1       1.2       0       1.2         2       0       0       0         3       0       0       0         4       2.6       0       4.2         Q6004		0	0	0
2         0         0         0           3         0         0         0           4         2.6         0         4.2           Q6004         E         4.6         4.5           C         0.1         0.1         0.1           B         4.6         4.5         4.5           Q6005         E         4.7         0         1.4           C         4.5         4.5         4.5         8           B         4.6         0         0         0           Q6008         E         4.5         0.1         4.5         8           B         4.6         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0				
3         0         0         0           4         2.6         0         4.2           Q6004         E         4.6         4.5           C         0.1         0.1         0.1           B         4.6         4.5         4.5           Q6005         E         4.7         0         1.4           C         4.5         4.5         4.5         8           B         4.6         0         0         0           Q6008         E         4.5         0.1         4.5         8           B         4.6         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		1.2	0	1.2
4       2.6       0       4.2         Q6004       E       4.6       4.5         C       0.1       0.1       0.1         B       4.6       4.5       4.5         Q6005       E       4.7       0       1.4         C       4.5       4.5       4.5       4.5         B       4.6       0       0       0         Q6008       E       4.5       0.1       4.5       8         E       4.5       0.1       4.5       8       4.6       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	2	0	0	0
Q6004	3	0	0	0
Q6004  E	4	2.6	0	4.2
E 4.6 4.6 4.5 C 0.1 0.1 0.1 B 4.6 4.5 4.5 Q6005 E 4.7 0 1.4 C 4.5 4.5 4.5 B 4.6 0 0 Q6008 E 4.5 0.1 4.5 B 4.6 0 0 Q6009 E 4.6 4.6 4.6 4.6 C 0.3 5.0 9.9 B 2.3 2.0 2.0 Q6010 E 0 0 0.1 0.1 B 4.5 4.5 4.5 4.5 Q6011 E 4.6 4.6 4.6 4.6 C 4.6 0.3 0 C 0 0.1 0.1 B 4.5 4.5 4.5 4.5 Q6011 E 4.6 4.6 4.6 4.6 C 4.6 0.3 0 B 4.0 4.5 4.6 Q6012 G 0 0 0 D 4.1 4.4 4.4 Q6013 E 0.3 0.3 0.2 C 7.2 7.1 7.2 B 0.3 0.3 0.1 Q6018 E 1.7 2.1 2.2 C 4.2 3.7 3.6				
E       4.6       4.6       4.5         C       0.1       0.1       0.1         B       4.6       4.5       4.5         Q6005       E       4.7       0       1.4         C       4.5       4.5       4.5         B       4.6       0       0         Q6008       E       4.5       0       1.2         C       4.5       0.1       4.5         B       4.6       0       0         Q6009       E       4.6       4.6       4.6         C       0.3       5.0       9.9         B       2.3       2.0       2.0         Q6010       E       0       0       0         E       0       0       0       0       0         C       0       0.1       0.1       0.1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	06004			
C         0.1         0.1         0.1           B         4.6         4.5         4.5           Q6005		16	16	15
B       4.6       4.5       4.5         Q6005       0       1.4         C       4.5       4.5       4.5         B       4.6       0       0         Q6008       0       1.2       1.2         C       4.5       0.1       4.5         B       4.6       0       0         Q6009       0       0       0         E       4.6       4.6       4.6         C       0.3       5.0       9.9         B       2.3       2.0       2.0         Q6010       0       0       0         E       0       0       0         C       0       0.1       0.1         B       4.5       4.5       4.5         Q6011       0       0       0         E       4.6       4.6       4.6         C       4.6       0.3       0         B       4.0       4.5       4.6         Q6012       0       0       0         G       0       0       0         D       4.1       4.4       4.4         Q6013				
Q6005       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       —       — <td></td> <td></td> <td></td> <td></td>				
E       4.7       0       1.4         C       4.5       4.5       4.5         B       4.6       0       0         Q6008       0       1.2         C       4.5       0.1       4.5         B       4.6       0       0         Q6009       0       0       0         E       4.6       4.6       4.6         C       0.3       5.0       9.9         B       2.3       2.0       2.0         Q6010       0       0       0         E       0       0       0         C       0       0.1       0.1         B       4.5       4.5       4.5         Q6011       0       0       0         B       4.0       4.5       4.6         Q6012       0       0       0         G       0       0       0         D       4.1       4.4       4.4         Q6013       0       0       0         E       0.3       0.3       0.1         Q6018       0       0       0         Q6018       0		4.6	4.5	4.5
C       4.5       4.5       4.5         B       4.6       0       0         Q6008       Image: color of the color of th	Q6005			
B       4.6       0       0         Q6008       0       1.2         C       4.5       0.1       4.5         B       4.6       0       0         Q6009       0       0       0         E       4.6       4.6       4.6         C       0.3       5.0       9.9         B       2.3       2.0       2.0         Q6010       0       0       0         E       0       0       0         C       0       0.1       0.1         B       4.5       4.5       4.5         Q6011       0       0       0         B       4.0       4.5       4.6         Q6012       0       0       0         G       0       0       0         D       4.1       4.4       4.4         Q6013       0       0       0         E       0.3       0.3       0.1         Q6018       0       0       0       0         E       1.7       2.1       2.2         C       4.2       3.7       3.6	E	4.7	0	1.4
B       4.6       0       0         Q6008       0       1.2         C       4.5       0.1       4.5         B       4.6       0       0         Q6009       0       0       0         E       4.6       4.6       4.6         C       0.3       5.0       9.9         B       2.3       2.0       2.0         Q6010       0       0       0         E       0       0       0         C       0       0.1       0.1         B       4.5       4.5       4.5         Q6011       0       0       0         B       4.0       4.5       4.6         Q6012       0       0       0         G       0       0       0         D       4.1       4.4       4.4         Q6013       0       0       0         E       0.3       0.3       0.1         Q6018       0       0       0       0         E       1.7       2.1       2.2         C       4.2       3.7       3.6	С	4.5	4.5	4.5
Q6008       0       1.2         C       4.5       0.1       4.5         B       4.6       0       0         Q6009       0       0       0         E       4.6       4.6       4.6         C       0.3       5.0       9.9         B       2.3       2.0       2.0         Q6010       0       0       0         E       0       0       0         C       0       0.1       0.1         B       4.5       4.5       4.5         Q6011       0       0       0         B       4.0       4.5       4.6         Q6012       0       0       0         G       0       0       0         S       0       0       0         D       4.1       4.4       4.4         Q6013       0       0       0         E       0.3       0.3       0.1         Q6018       0       0       0       0         E       1.7       2.1       2.2         C       4.2       3.7       3.6				
E       4.5       0       1.2         C       4.5       0.1       4.5         B       4.6       0       0         Q6009				Ů
C     4.5     0.1     4.5       B     4.6     0     0       Q6009		15	0	1 2
B 4.6 0 0 Q6009 E 4.6 4.6 4.6 C 0.3 5.0 9.9 B 2.3 2.0 2.0 Q6010 E 0 0 0.1 0.1 B 4.5 4.5 4.5 Q6011 E 4.6 4.6 4.6 C 4.6 0.3 0 B 4.0 4.5 4.6 Q6012 G 0 0 0 D 4.1 4.4 4.4 Q6013 E 0.3 0.3 0.2 C 7.2 7.1 7.2 B 0.3 0.3 0.1 Q6018 E 1.7 2.1 2.2 C 4.2 3.7 3.6				
Q6009       4.6       4.6       4.6         C       0.3       5.0       9.9         B       2.3       2.0       2.0         Q6010       0       0       0         E       0       0       0.1       0.1         B       4.5       4.5       4.5         Q6011       0       0       0       0         E       4.6       4.6       4.6       4.6         Q6012       0       0       0       0         S       0       0       0       0         D       4.1       4.4       4.4       4.4         Q6013       0       0       0       0       0         E       0.3       0.3       0.2       0.2       0.3       0.3       0.1         Q6018       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td></td> <td></td> <td></td> <td></td>				
E 4.6 4.6 4.6 C 0.3 5.0 9.9 B 2.3 2.0 2.0 Q6010 E 0 0 0 C 0 0.1 0.1 B 4.5 4.5 4.5 Q6011 E 4.6 0.3 0 B 4.0 4.5 4.6 Q6012 G 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		4.6	0	0
C     0.3     5.0     9.9       B     2.3     2.0     2.0       Q6010     B     0     0     0       E     0     0.1     0.1     0.1       B     4.5     4.5     4.5       Q6011     B     4.6     4.6     4.6       C     4.6     0.3     0       B     4.0     4.5     4.6       Q6012     C     0     0       S     0     0     0       D     4.1     4.4     4.4       Q6013     C     7.2     7.1     7.2       B     0.3     0.3     0.1       Q6018     C     4.2     3.7     3.6				
B 2.3 2.0 2.0 Q6010 E 0 0 0 0 C 0 0.1 0.1 B 4.5 4.5 4.5 Q6011 E 4.6 4.6 4.6 C 4.6 0.3 0 B 4.0 4.5 4.6 Q6012 G 0 0 0 D 4.1 4.4 4.4 Q6013 E 0.3 0.3 0.2 C 7.2 7.1 7.2 B 0.3 0.3 0.1 Q6018 E 1.7 2.1 2.2 C 4.2 3.7 3.6			4.6	
B     2.3     2.0     2.0       Q6010     0     0     0       E     0     0.1     0.1       B     4.5     4.5     4.5       Q6011     0.3     0     0       E     4.6     4.6     4.6       C     4.6     0.3     0       B     4.0     4.5     4.6       Q6012     0     0     0       S     0     0     0       D     4.1     4.4     4.4       Q6013     0.3     0.3     0.2       C     7.2     7.1     7.2       B     0.3     0.3     0.1       Q6018     0.3     0.3     0.3       E     1.7     2.1     2.2       C     4.2     3.7     3.6	С	0.3	5.0	9.9
Q6010       B       0       0       0         C       0       0.1       0.1         B       4.5       4.5       4.5         Q6011	В	2.3	2.0	2.0
E 0 0 0 0 0 C 0 0 0 0 0 0 0 0 0 0 0 0 0				
C     0     0.1     0.1       B     4.5     4.5     4.5       Q6011          E     4.6     4.6     4.6       C     4.6     0.3     0       B     4.0     4.5     4.6       Q6012      0     0       S     0     0     0     0       D     4.1     4.4     4.4       Q6013          E     0.3     0.3     0.2       C     7.2     7.1     7.2       B     0.3     0.3     0.1       Q6018          E     1.7     2.1     2.2       C     4.2     3.7     3.6	F	0	0	0
B 4.5 4.5 4.5   4.5   Q6011				
Q6011       B       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       0.3       0       0       0       0       4.6       4.6       0.0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0				
E 4.6 4.6 4.6 C 4.6 0.3 0 B 4.0 4.5 4.6 Q6012 G 0 0 0 S 0 0 0 D 4.1 4.4 4.4 Q6013 E 0.3 0.3 0.2 C 7.2 7.1 7.2 B 0.3 0.3 0.1 Q6018 E 1.7 2.1 2.2 C 4.2 3.7 3.6		4.5	4.5	4.5
C 4.6 0.3 0 B 4.0 4.5 4.6 Q6012 G 0 0 0 S 0 0 0 D 4.1 4.4 4.4 Q6013 E 0.3 0.3 0.2 C 7.2 7.1 7.2 B 0.3 0.3 0.1 Q6018 E 1.7 2.1 2.2 C 4.2 3.7 3.6	_			
B 4.0 4.5 4.6 Q6012			_	
Q6012	С	4.6	0.3	0
G 0 0 0 0 0 0 0 D 4.1 4.4 4.4 Q6013	В	4.0	4.5	4.6
G 0 0 0 0 0 0 0 D 4.1 4.4 4.4 Q6013	Q6012			
S         0         0         0           D         4.1         4.4         4.4           Q6013         E         0.3         0.3         0.2           C         7.2         7.1         7.2         B         0.3         0.1           Q6018         E         1.7         2.1         2.2         C         4.2         3.7         3.6		0	0	0
D 4.1 4.4 4.4 Q6013 E 0.3 0.3 0.2 C 7.2 7.1 7.2 B 0.3 0.3 0.1 Q6018 E 1.7 2.1 2.2 C 4.2 3.7 3.6				
Q6013     0.3     0.3     0.2       C     7.2     7.1     7.2       B     0.3     0.3     0.1       Q6018     0.3     0.3     0.1       E     1.7     2.1     2.2       C     4.2     3.7     3.6			-	
E 0.3 0.3 0.2 C 7.2 7.1 7.2 B 0.3 0.3 0.1 Q6018 E 1.7 2.1 2.2 C 4.2 3.7 3.6		4.1	4.4	4.4
C     7.2     7.1     7.2       B     0.3     0.3     0.1       Q6018				
B 0.3 0.3 0.1 Q6018				
Q6018	С			7.2
Q6018	В	0.3	0.3	0.1
E 1.7 2.1 2.2 C 4.2 3.7 3.6				
C 4.2 3.7 3.6		1.7	2.1	2.2
		4.2		
0.1 0.1 0.1				
1	D	U. I	0.1	U. I

MODE	REC	PLAY	STOP
PIN NO.	ILLO	1 511	0101
Q6021			
E	6.8	6.8	6.8
С	6.8	6.9	6.6
В	6.1	6.2	5.9
Q6022			
Е	0	0	0
C	0	0	0
В	0.6	0.6	0.6
Q6026	0.0	0.0	0.0
E	6.8	6.8	6.6
С			
	6.8	6.8	6.6
В	2.9	2.9	2.8
Q6201	4.5	4.5	4 =
E	4.5	4.5	4.5
С	4.5	4.5	4.5
В	3.8	3.8	3.8
Q6202			
Е	0	0	0
С	0	0	0
В	0.6	0.6	0.6
TP6001	0.5	0.5	0.3
TP6003	0.1	0.1	0.1
TP6004	3.8		4.4
TP6006	0.9	3.8	1.2
TP6007	3.3		4.1
TP6010	4.5	4.6	4.5
TP6011	4.2	4.4	2.5
TP6012	4.1	4.5	4.5
TP6014	4.4	4.4	2.5
			4.6
TP6015	4.5	4.6	
TP6020	4.1	4.2	4.2
TP6021	1.0	3.4	3.7
TP6022	1.0	3.7	0
TP6023	0.1	0.5	0.1
TP6201	2.3	2.3	0.1
TP6202	2.3	2.3	2.3
TP6205	3.2	2.3	3.2
TP6206	3.4	2.3	3.2
TP6207	2.3	2.3	2.3
TP6208	0.8	0.5	0.7
TP6210	0.5	2.2	0.5
TP6212	1.6	1.9	0.1
TP6215	0.1	0	4.6
TP6216	4.6	0	0
TP6220	0.7	0.7	0
			-

EVF	C.	В	.A
(BC	D	F	F)

MODE CAMERA PIN NO.

2.0

4.5 2.0

0

2.0 0.6

0

4.2

3.7

0

1.8

4.4

2.6

1.9

1.8 16 2.2

> 0 5.9

0.5

2.3

E 2.9 C -29.6

TP901 3.7

TP902 4.2

IC901 1

7

8

9

10

11

12

13

14

15

Q901

E C B

Q902

В

COL	_OR	<b>EVF</b>	A/B	C.B.A.	(
-----	-----	------------	-----	--------	---

PIN NO.\ IC901 1 2 3 4 5 6 7 8 9 10	1.7 1.7 1.6  1.3		PIN NO.\ Q902 E C B Q903 E	0 3.9 0.7		PIN NO. \ IC1201	0.8
1C901 1 2 3 4 5 6 7 8 9	1.7 1.6   1.3		Q902 E C B	3.9		IC1201 1	0.8
1 2 3 4 5 6 7 8 9	1.7 1.6   1.3		E C B Q903	3.9		1	0.8
2 3 4 5 6 7 8 9	1.7 1.6   1.3		C B Q903	3.9	†		
3 4 5 6 7 8 9	1.6   1.3		B Q903			2	0.
4 5 6 7 8 9	   1.3		Q903	0.7	i t	3	4.
5 6 7 8 9	1.3				+	4	1.0
6 7 8 9 10	1.3				+	5	0.4
7 8 9 10	1.3			3.3	+	6	0.
8 9 10	1.3		С	4.6	+	7	0.9
9 10		ı	В	3.9	† †	8	0.
10			Q904	3.9	† †	IC9001	0.
	0.2		<u>Q904</u>	4.1	<del> </del>	1	1.
11 1	6 2	-			<del> </del>		
11 12	6.2		C1	4.6	}	2	1.
	6.2	1	B1	4.7		3	1.
13	6.2		C2	16.0		4	
14	6.2		B2	12.3		5	
15	0		Q905	15.0		6	
16	6.2		E	15.0		7	
17	0		С	12.3	<del> </del>	8	0.9
18	0		В	14.7	+	9	3.9
19					-	10	2.0
20	0.1		TP901	6.2	-	11	2.0
21			TP902			12	2.3
22	1.6		TP903			13	2.0
23			TP904			14	2.0
24	0		TP905	3.3		15	2.0
25	3.2		TP906	12.3		16	2.0
26	0					17	0.
27	1.4					18	7.
28	0					19	0.
29	0.1					20	0.
30						21	0.3
31	1.6					22	1.0
32						23	1.0
33						24	1.0
34	0					25	3.5
35						26	1.8
36	0.4					27	0.
37	0.6					28	0.
38	2.7					29	0.
39	2.7					30	0.
40						31	0.0
41						32	0.
42						33	0.
43	0					34	0.
44	3.2					35	0.
45	0					36	0.4
46						37	0.9
47	2.1					38	2.9
48	1.9					39	2.9
						40	0.
Q901						41	3.5
S	0				[	42	0.
D	2.7				[	43	
G	1.2					44	3.2

( RA	C,D,E I		CAMERA		MODE	CAMERA
KΑ		MODE PIN NO.	CAWERA		\ <u>MODE</u> PIN NO.\	CAIVIER
		46	2.3		Q1213	
3		47	2.0		Е	0.1
		48	1.9		С	4.3
5		IC9002			В	0.1
)		1	0		Q1214	
1		2	-14.8		G	3.3
		3	6.1		S	0
5		4	6.1		D	0
<u></u>		5	12.2		Q1215	_
_			12.2		E	0
7		Q1202			C	3.1
		E	0.1		В	0.1
7		С	0.1		Q1216	
		В	0.7		E	0
		Q1203	0.7		С	0
		E	3.6		В	3.0
		С	3.6		Q1217	3.0
_						0
)		B 01204	0.1		E C	0 7 1
		Q1204	2.6			7.1
		E	3.6		В	0.4
		С	3.6		Q1218	40.0
		В	0.1		E	12.6
		Q1205	0.0		С	12.2
)		E	3.6		В	12.8
)		С	0.1		Q1219	
3		В	3.6		E1	12.2
		Q1206			C1	5.0
		Е	0.1		B1	5.2
		С	4.2		E2	5.0
		В	0.1		C2	0
					B2	4.0
3		Q1207			Q1220	
3		E	3.6		E	-14.8
3		С	-15.4		С	-15.8
3		В	3.7		В	-15.0
3		Q1208			Q1221	
7		Е	15.0		Е	7.6
ı		С	15.5		С	12.6
		В	15.5		В	7.5
		Q1209			Q1222	
ć		Е	15.0		Е	0.1
		С	15.5		С	7.6
5		В	15.5		В	0
5		Q1210			Q9001(	(E)
ı		Е	0		Е	0.1
1		С	0		С	5.2
)		В	0		В	0.2
)		Q1211			Q9002(	
)		E	3.7		E	0.1
		С	3.8		С	5.2
3		В	4.3		В	0.2
5		Q1212			Q9004	
		Е	0.1		Е	0.1
2		С	4.8		С	5.2

B 0.1

			СС
MODE PIN NO.	CAMERA		MO PIN
Q9005	(D E)		IC
E	0.1		100
С	5.2		<u> </u>
В	0.2		
Q9051			
E	0.1		H
			Ŀ
C B	-0.2		<u> </u>
			<u> </u>
Q9052			
E	0		<u> </u>
С	4.4		1
B	0		1
Q9101(			1
E	0		1
С	0		$\vdash^1$
B	1.0		<u> </u>
Q9102(			Q
E	0		<u> </u>
С	0		<u> </u>
В	1.8		
TP1201	3.3		
TP1202			
TP1203			
TP1204			
TP1205			
TP1206			
TP9001			
TP9002			
TP9003			
TP9003			
TP9004			$\vdash$
TP9006			<u> </u>
TP9007	0.3		
			$\vdash$
			_
			<u> </u>
		ŀ	-

CAMERA

5.0 0 4.0

0.2

104

В

	CAMED
MODE PIN NO.\	CAIVILIV
IC601	
1	-7.5
2	-7.5
3	0
4	0
5	
6	0
7	0
8	14.9
9	0
10	5.8
11	0.3
12	0.3
13 14	2.4
14	1.9
Q601	
E	2.4
С	14.9
В	0

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

# COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F

## 9 CIRCUIT BOARD LAYOUT

#### 9.1. MAIN C.B.A.

#### MAIN C.B.A. LSEP8024E1 (A) / LSEP8024D1 (B) / LSEP8024A1 (C) / LSEP8024F1 (D) / LSEP8024C1 (E) / LSEP8024B1 (F)

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 3A 32V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D'INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 3A 32V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 1.5A 63V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 1.5A 63V

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

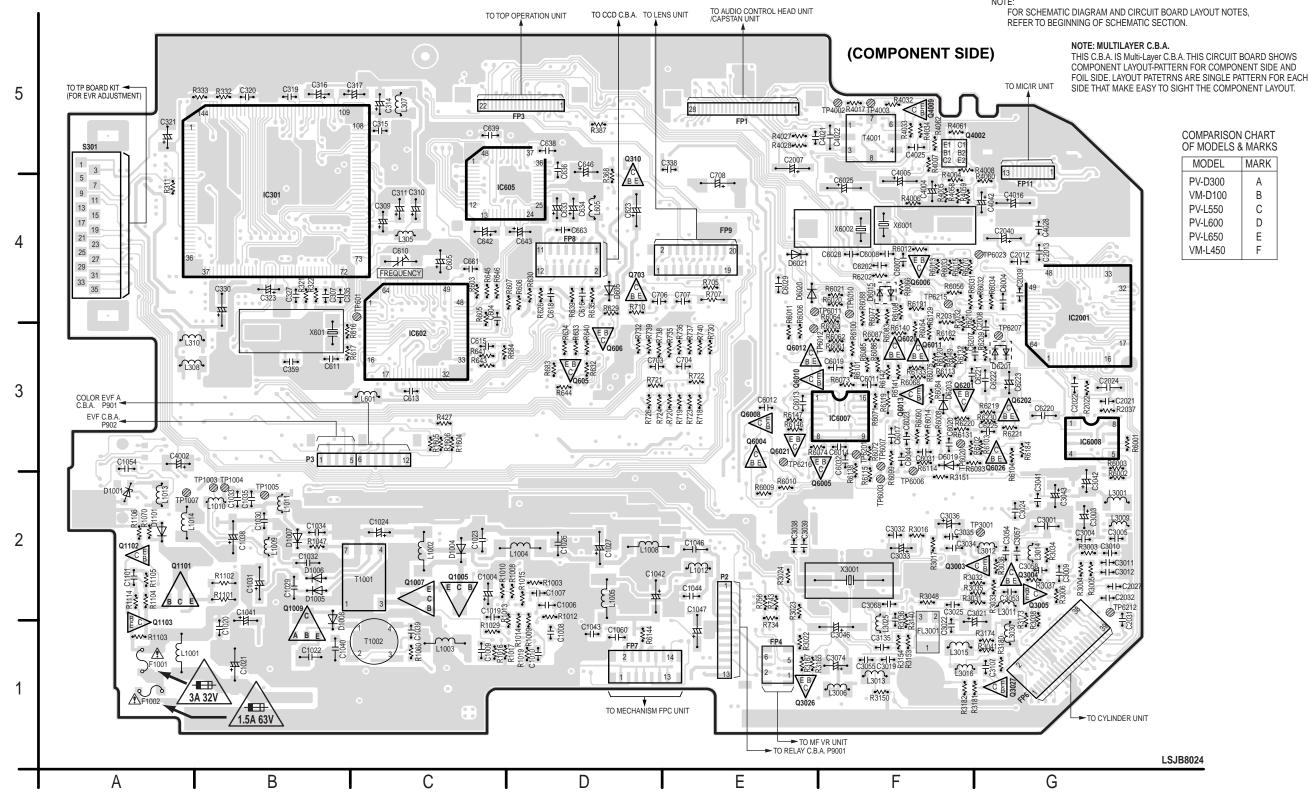
NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

NOTE

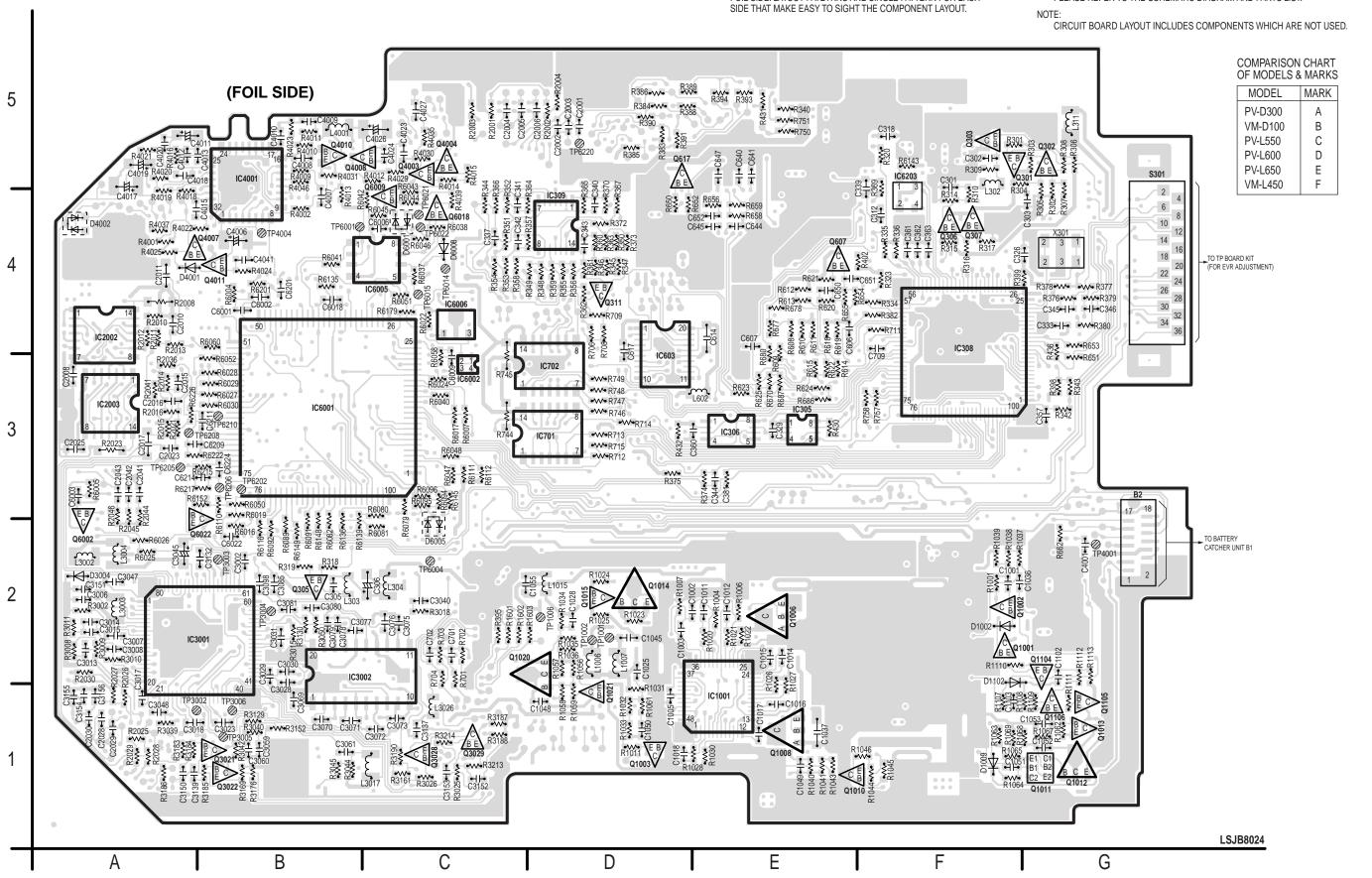


#### MAIN C.B.A. LSEP8024E1 (A) / LSEP8024D1 (B) / LSEP8024A1 (C) / LSEP8024F1 (D) / LSEP8024C1 (E) / LSEP8024B1 (F)

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT PATETRNS ARE SINGLE PATTERN FOR EACH

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING. PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.



#### LCD C.B.A. LSEP8030A1 (C) / LSEP8030B1 (D, F)

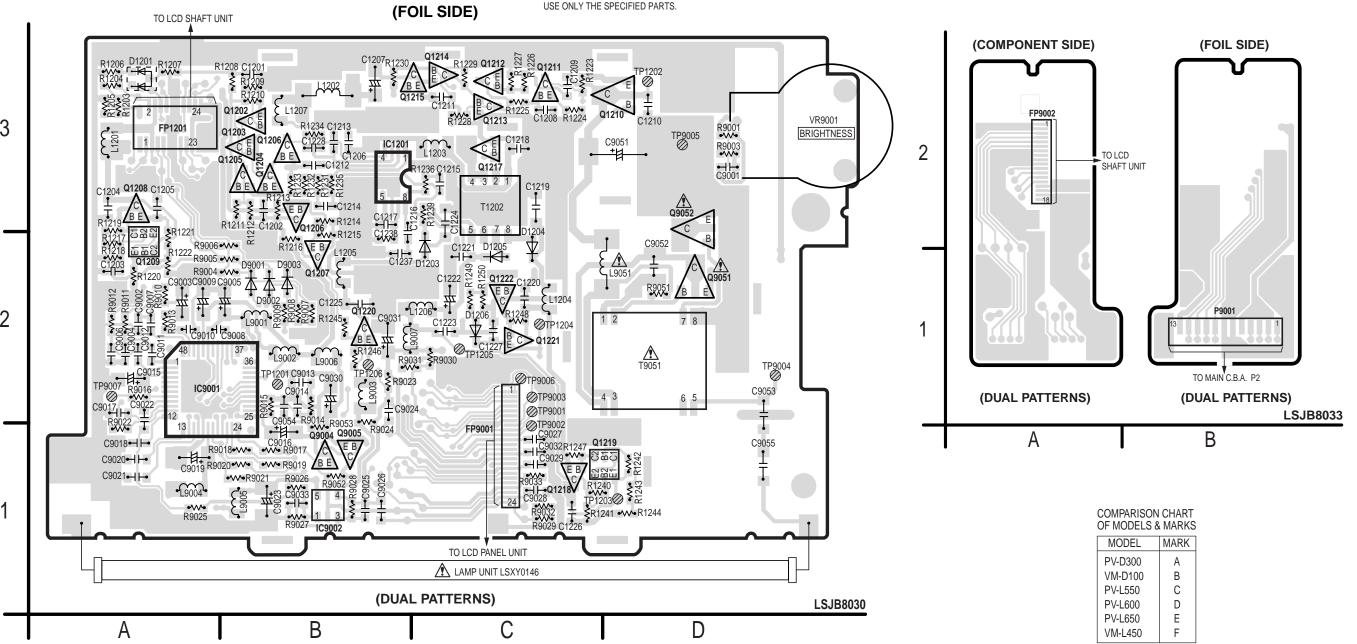
#### **RELAY C.B.A. LSEP8033A1 (C, D, E, F)**

OTE:
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS.
FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING,
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

OTE:
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



#### 9.3. LCD C.B.A. (E)

#### LCD C.B.A. LSEP8031A1 (E)

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

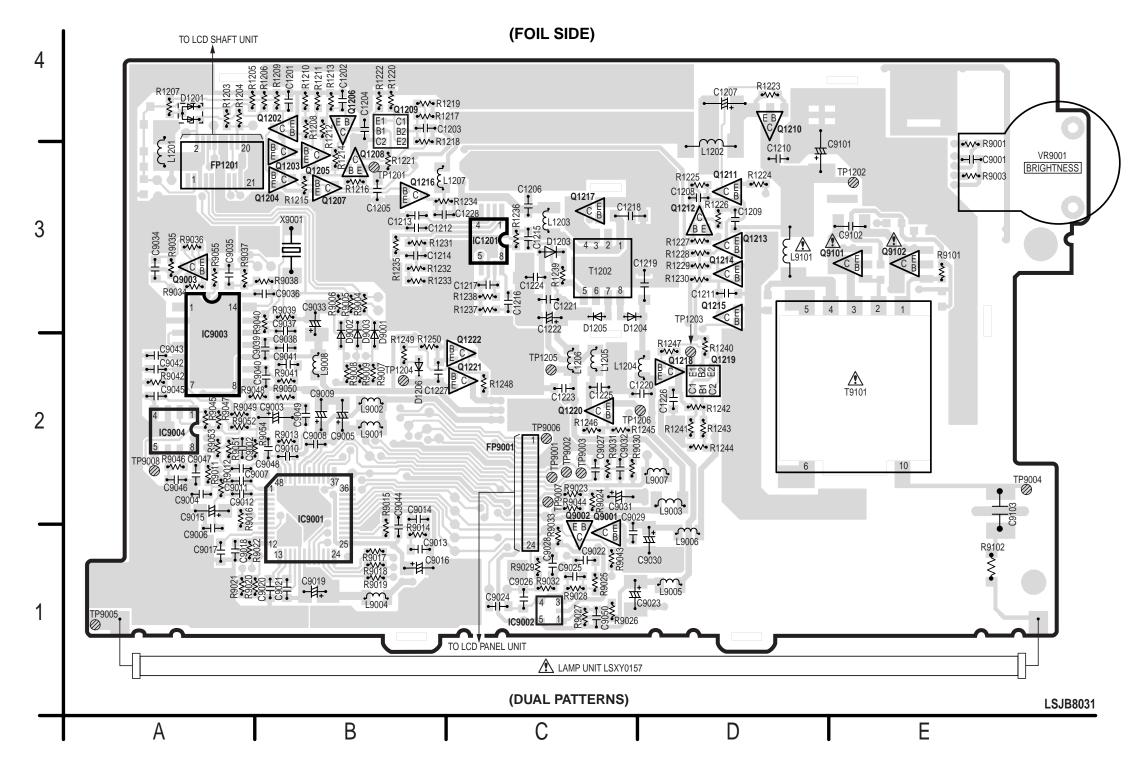
NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F



#### **EVF C.B.A. LSEQ0558 (B, C, D, E, F)**

TO MAIN C.B.A. P3

TO DEFLECTION YOKE

(DUAL PATTERNS)

В

2

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING. PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

(FOIL SIDE)

→| C913

R926 R927

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

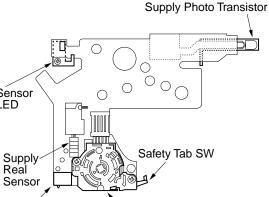
(COMPONENT SIDE)

TO VCR OPERATION UNIT

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.

#### **MECHANISM FPC UNIT**

MECHANISM FPC UNIT IS NOT SERVICEABLE AND IS SUPPLIED AS A UNIT ONLY FOR REPLACEMENT.



Mode SW

OF MODELS & MARKS MODEL MARK PV-D300 VM-D100 PV-L550 PV-L600 D

Ε

PV-L650

VM-L450

COMPARISON CHART

Sensor LED	
Supply- Real Sensor	
Cassette	Down SW

#### COLOR EVF A C.B.A. LSEP8035A1 (A)

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

D

ξ<u>μ</u>

C

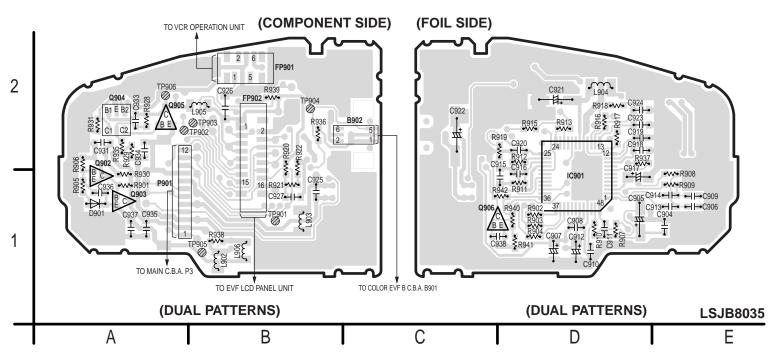
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

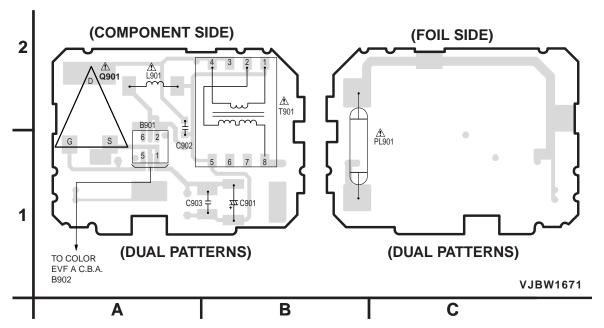
## COLOR EVF B C.B.A. VEPW1671A1 (A)

LSJB8034

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

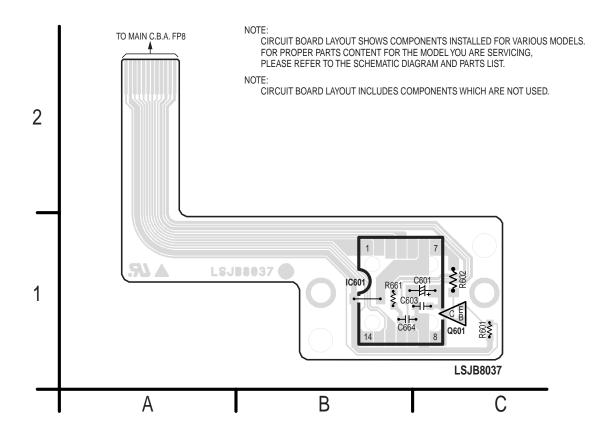




(DUAL PATTERNS)

## 9.5. CCD C.B.A. / HEAD AMP C.B.A.

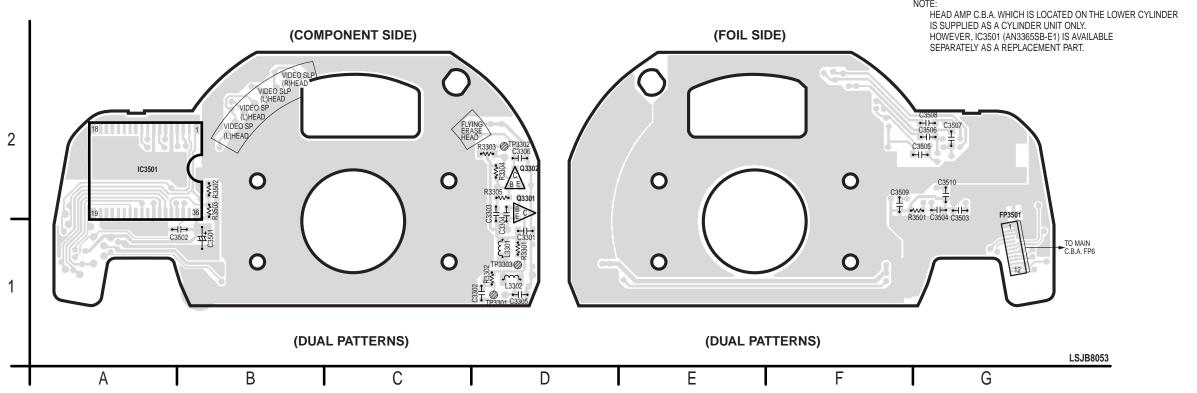
#### CCD C.B.A. LSEQ0547



#### NOTE:

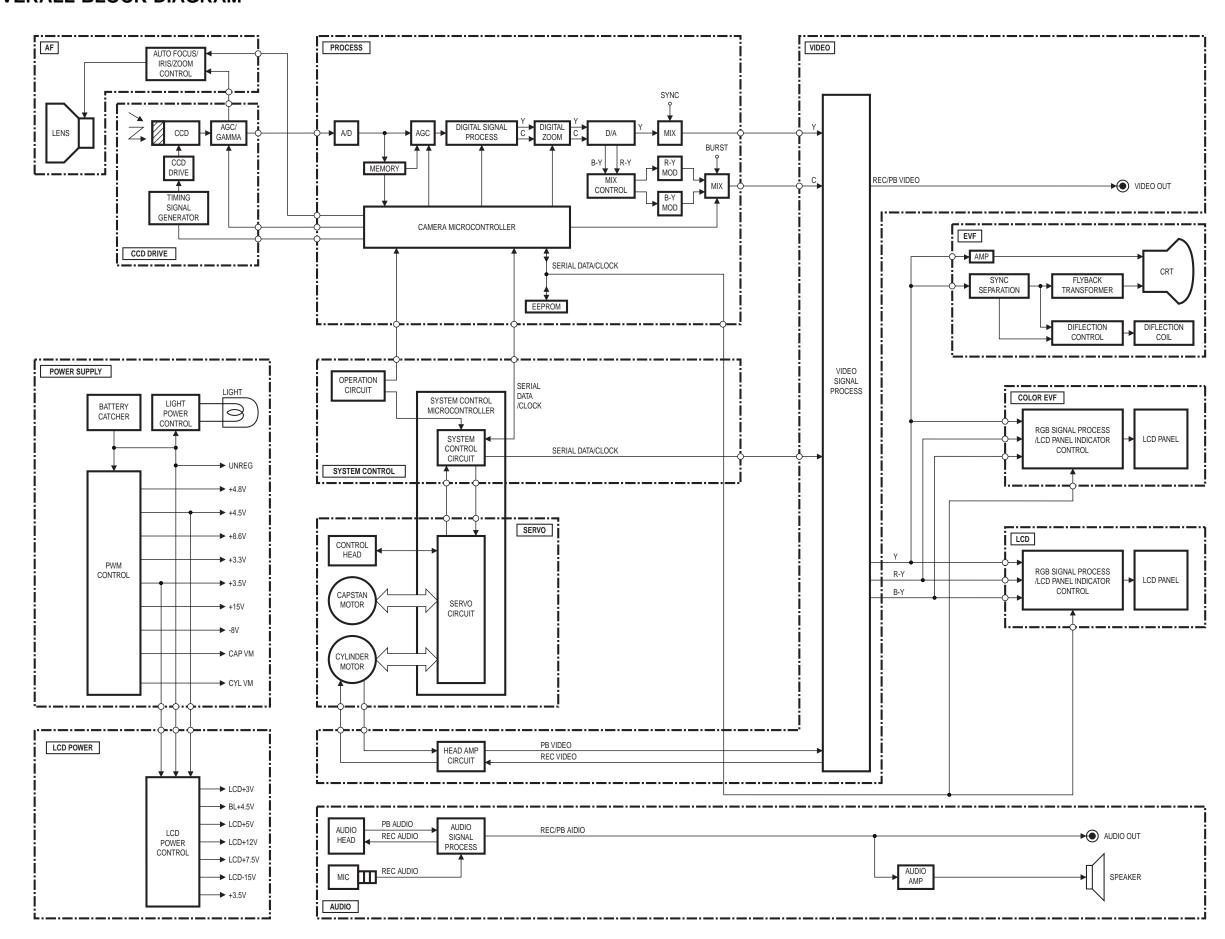
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

#### **HEAD AMP C.B.A.**

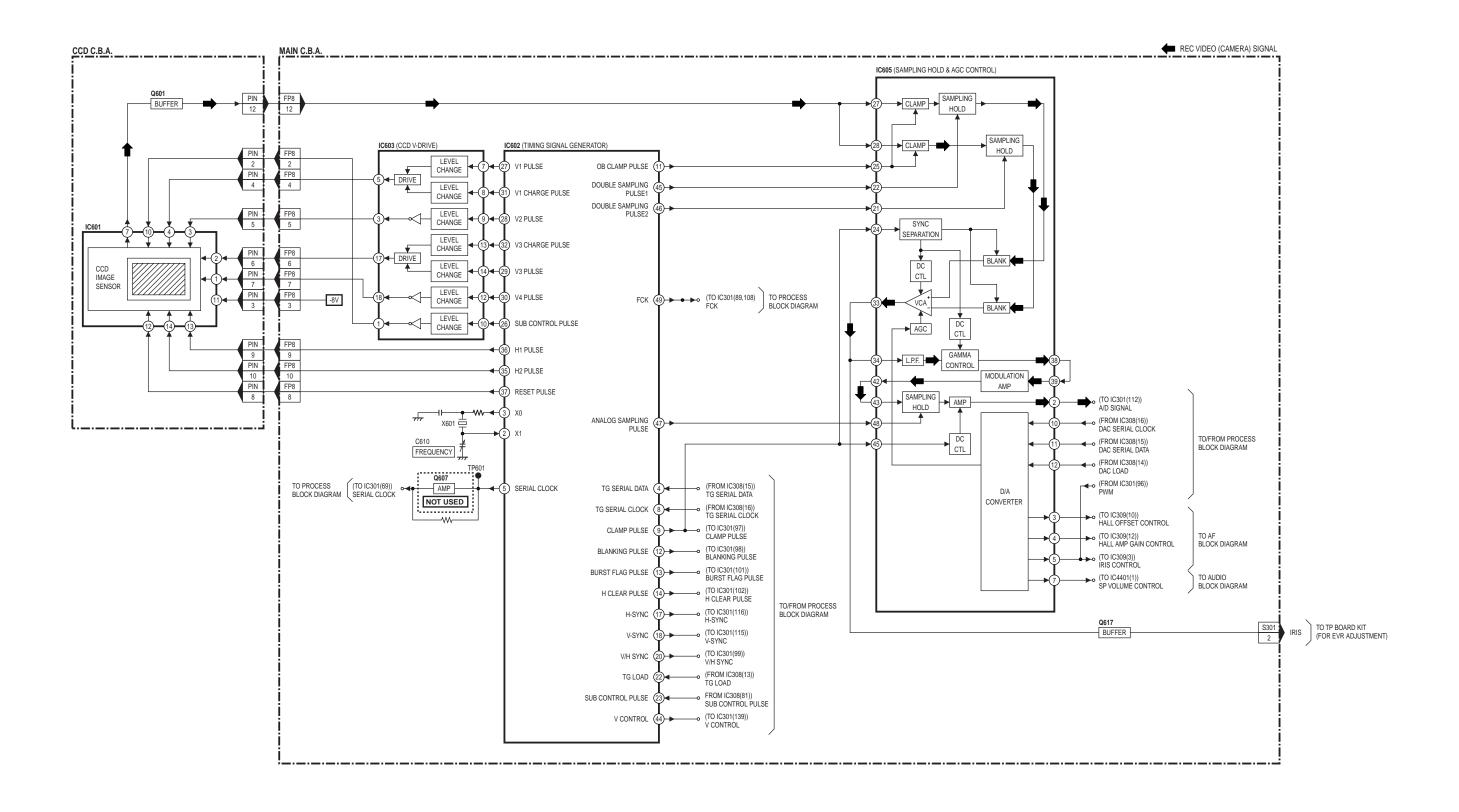


## **10 BLOCK DIAGRAMS**

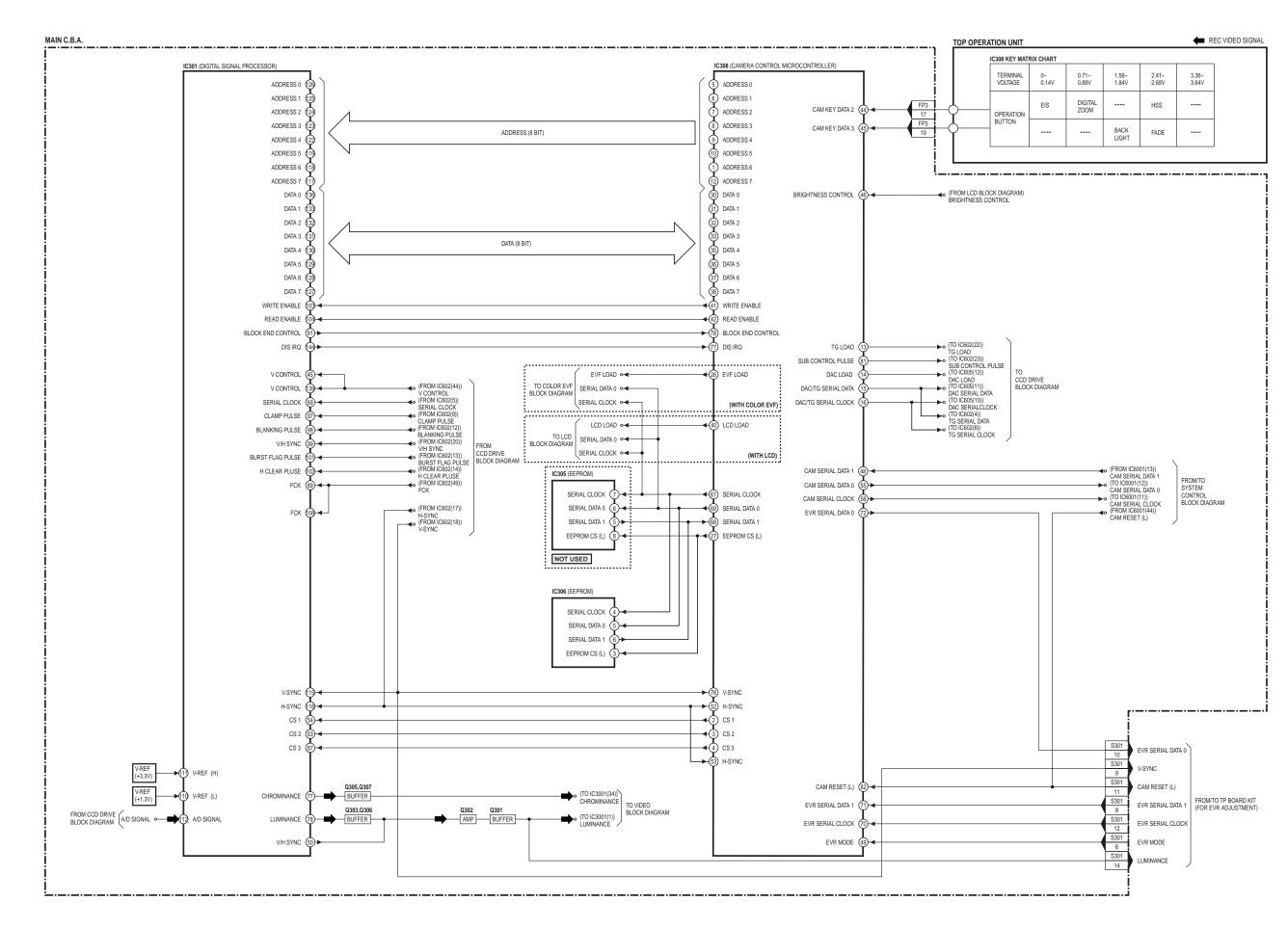
#### 10.1. OVERALL BLOCK DIAGRAM



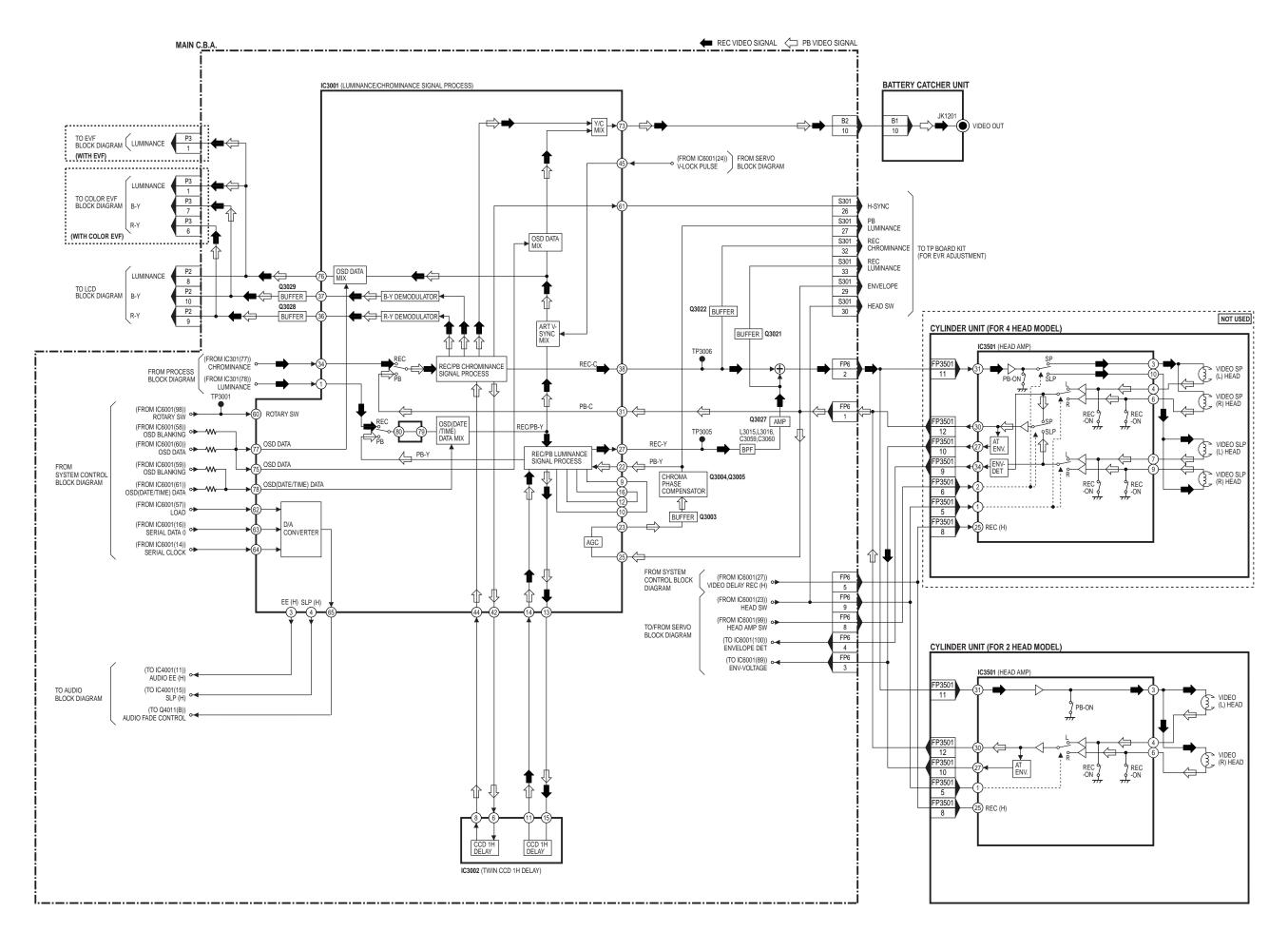
### 10.2. CCD DRIVE BLOCK DIAGRAM

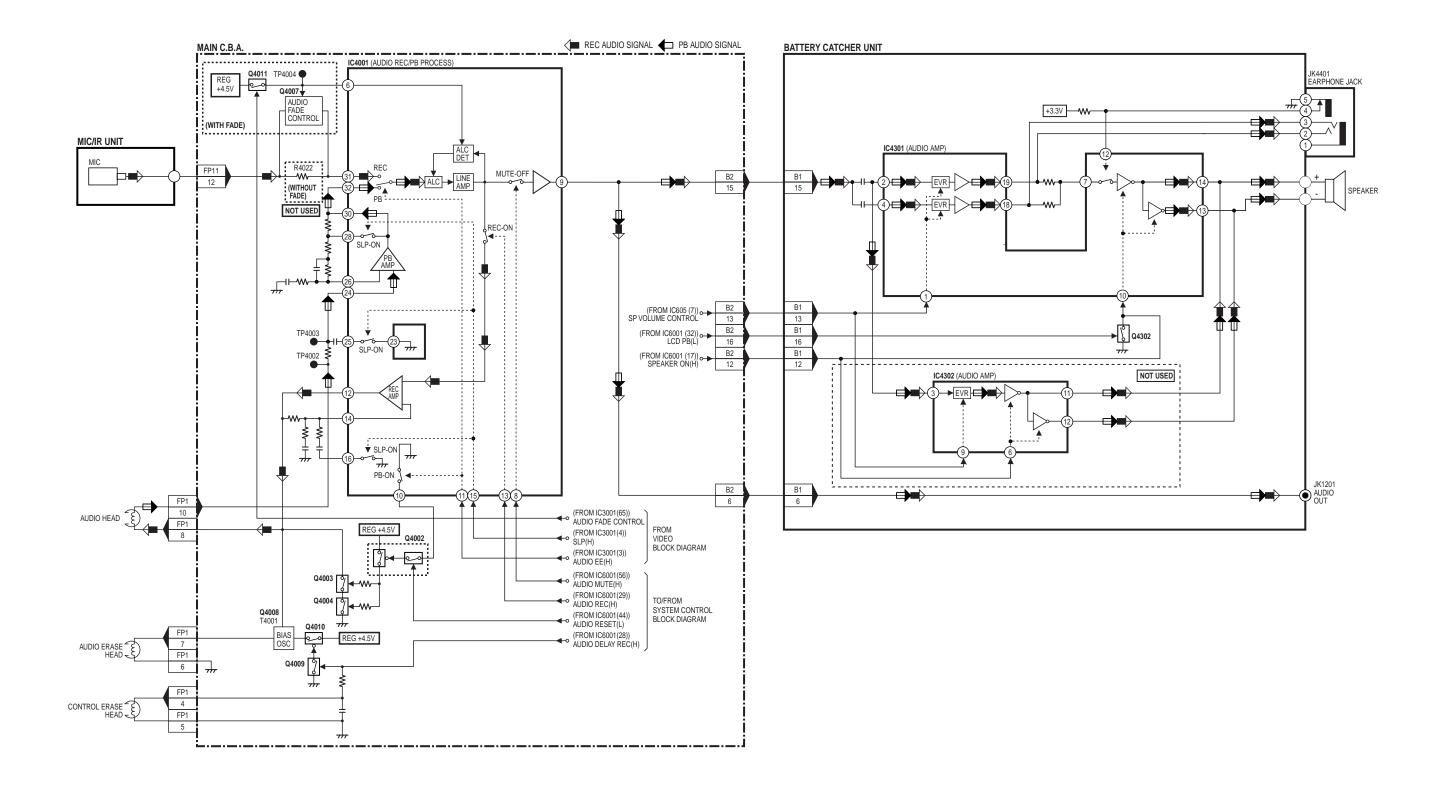


## 10.3. PROCESS BLOCK DIAGRAM

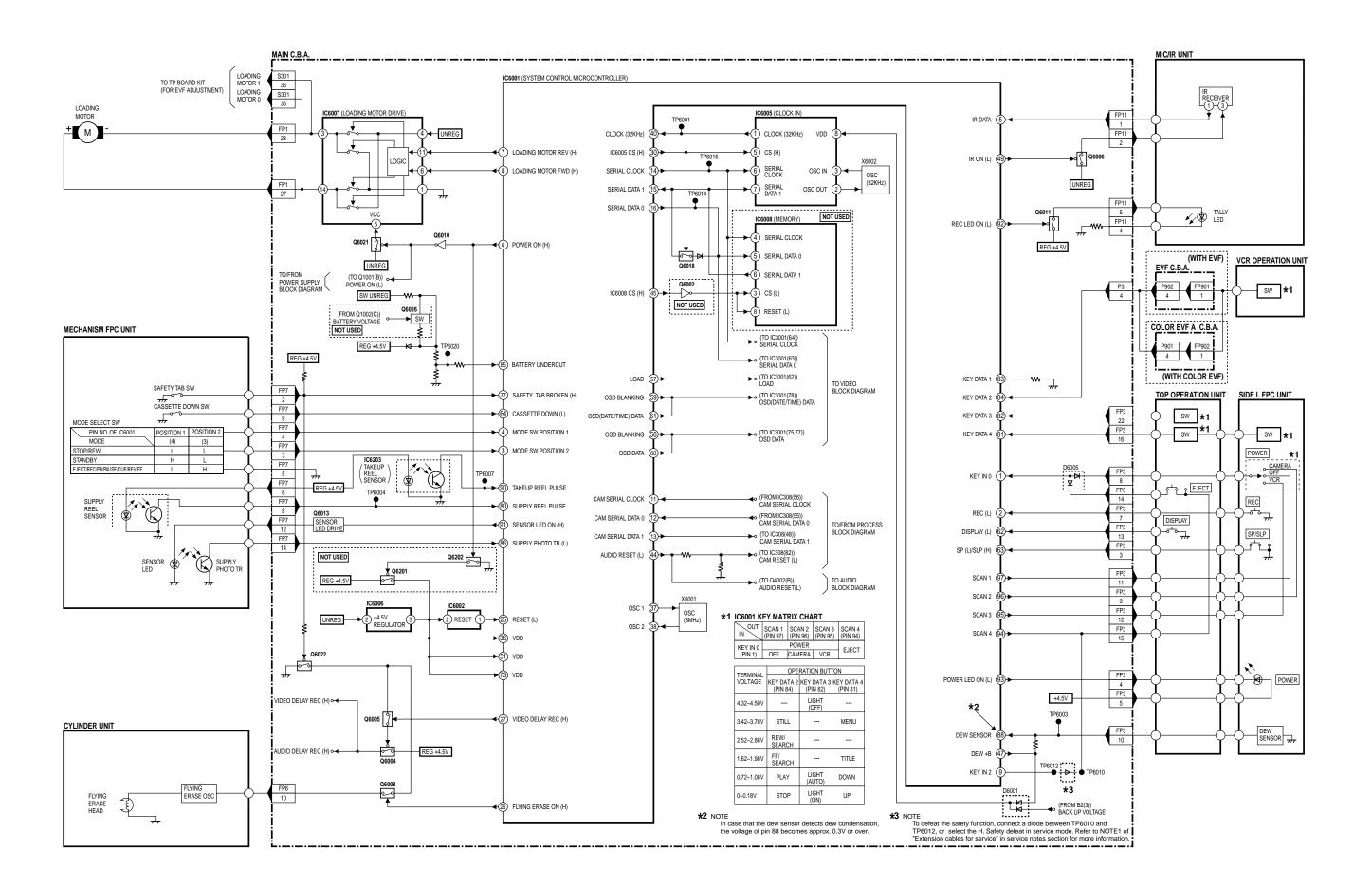


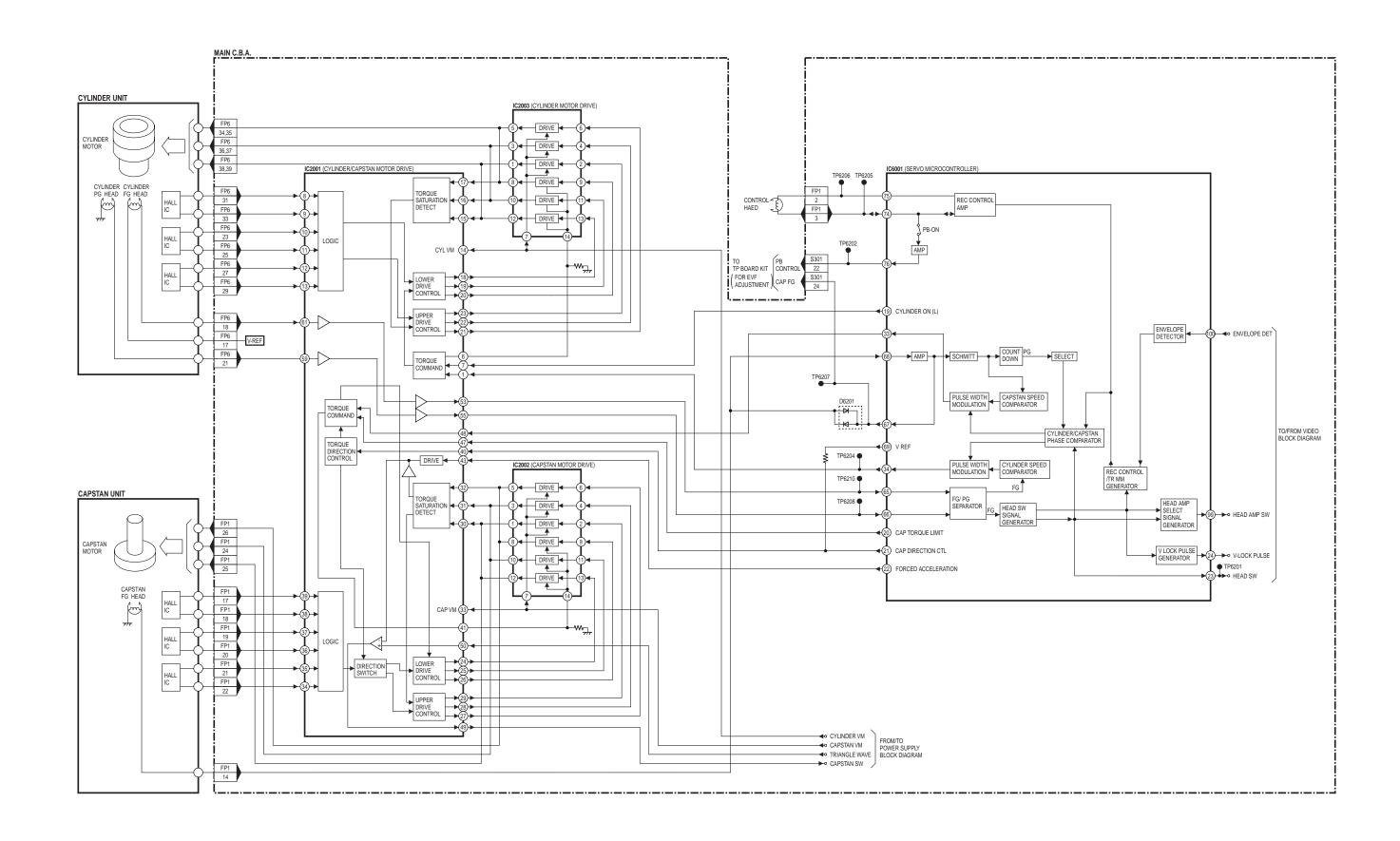
## 10.4. VIDEO BLOCK DIAGRAM



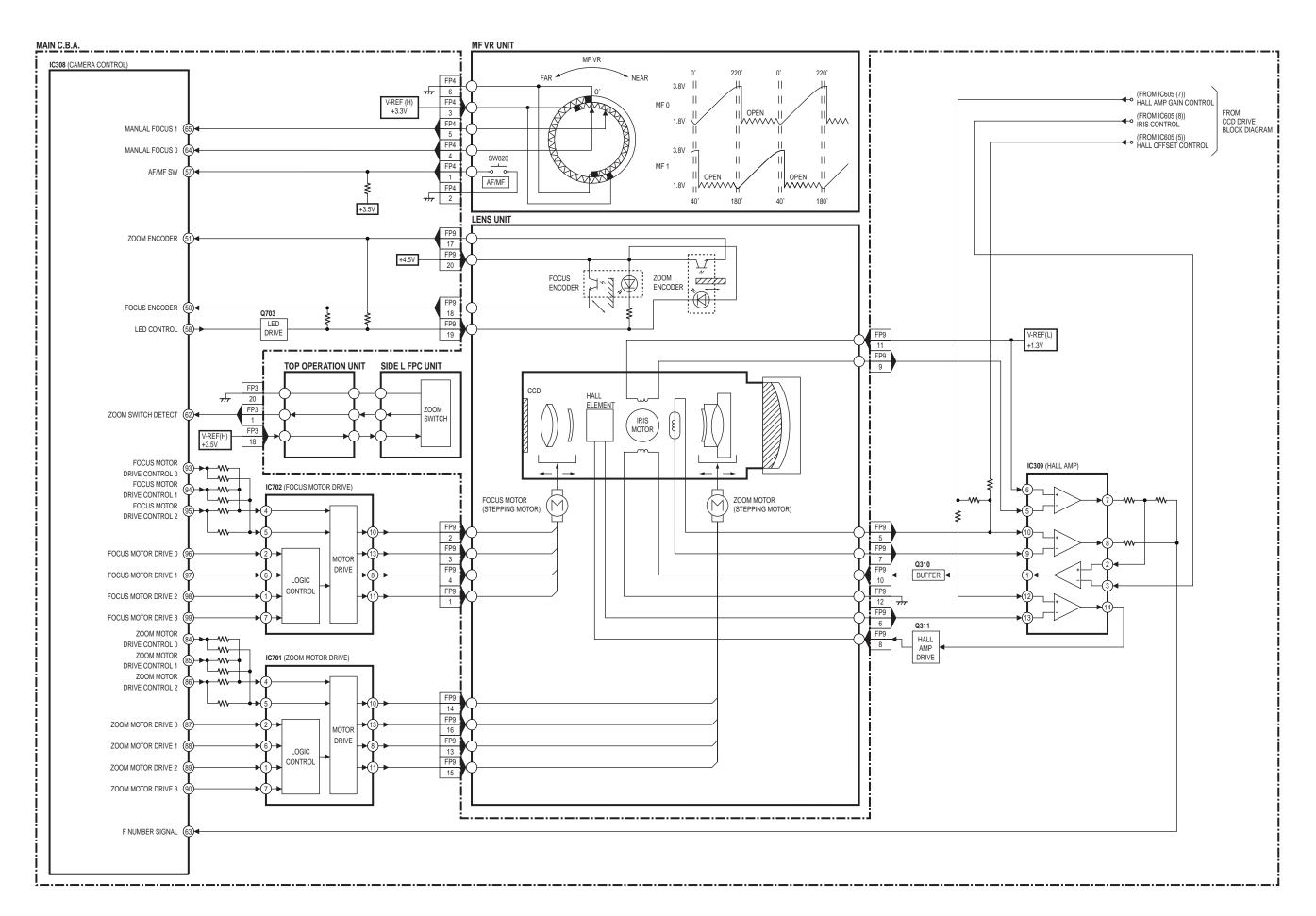


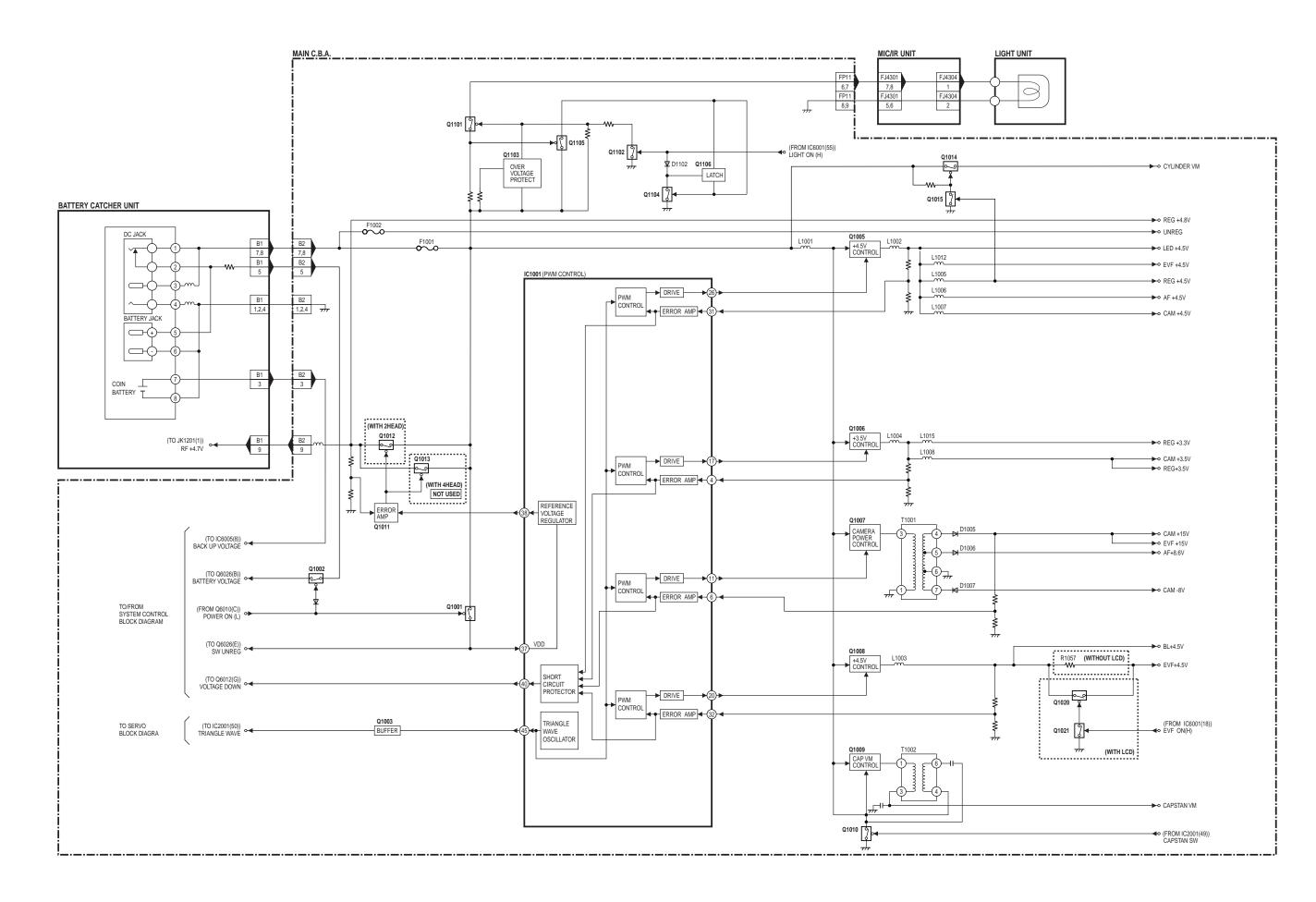
# 10.6. SYSTEM CONTROL BLOCK DIAGRAM



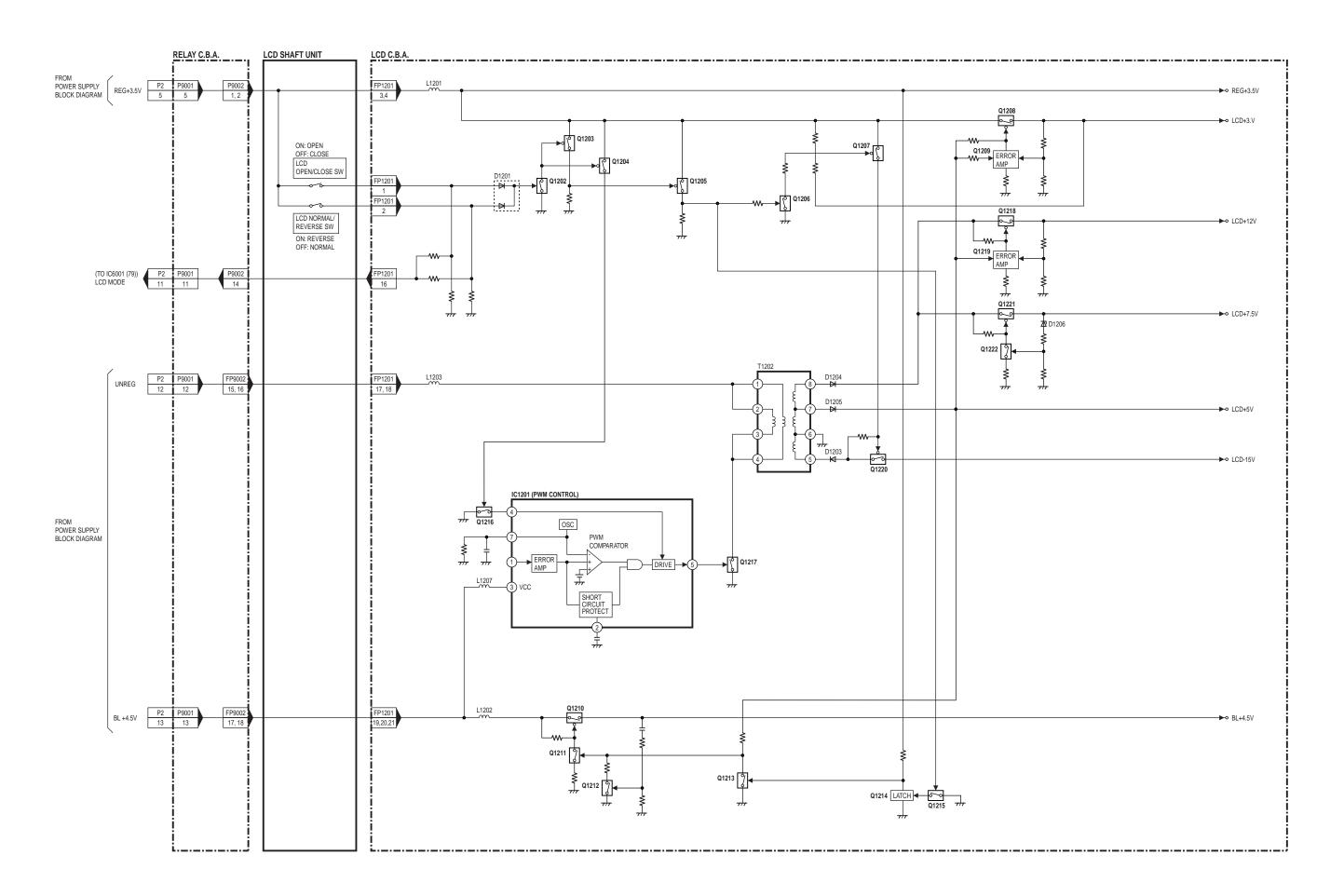


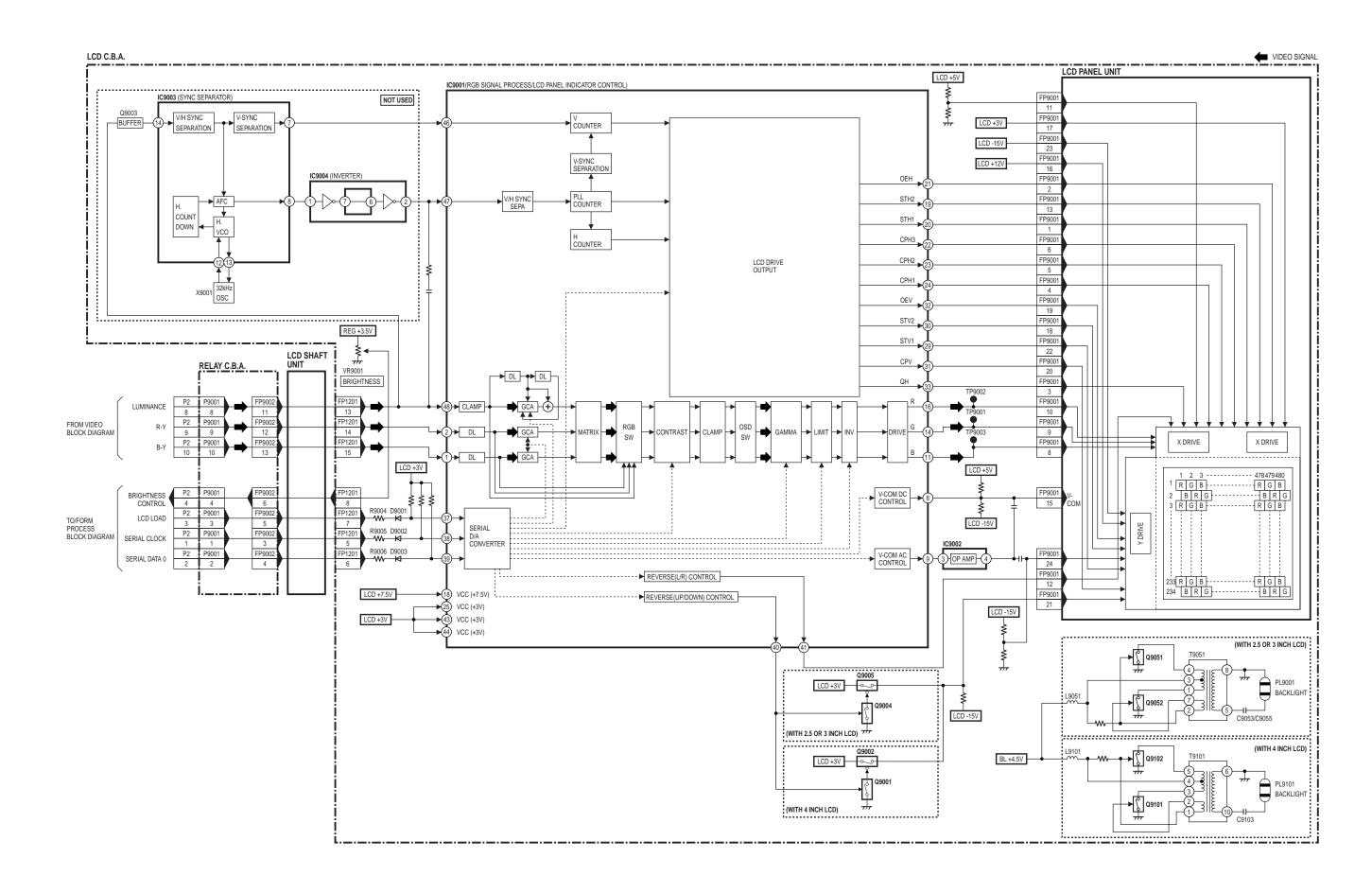
## 10.8. AF BLOCK DIAGRAM



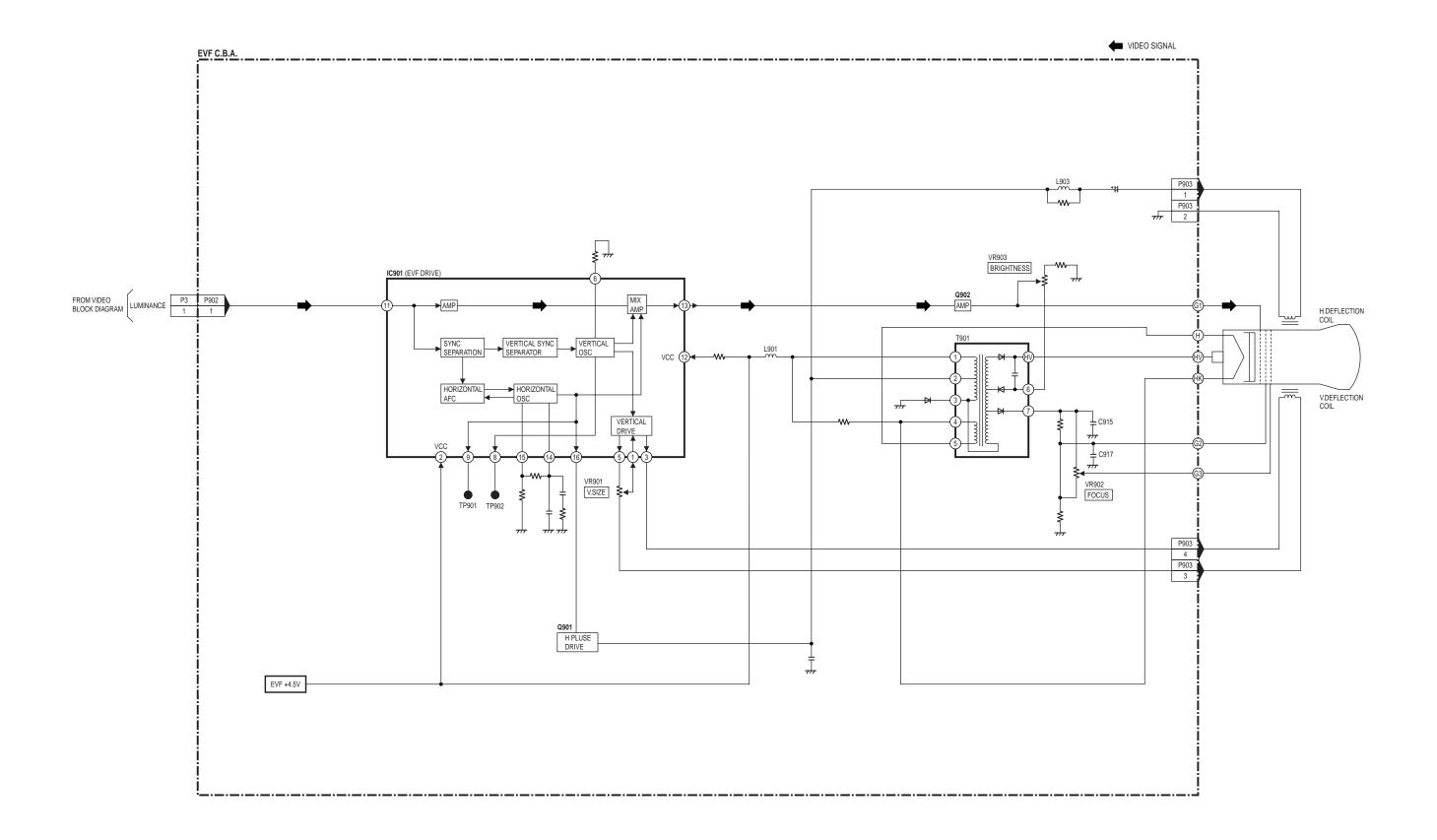


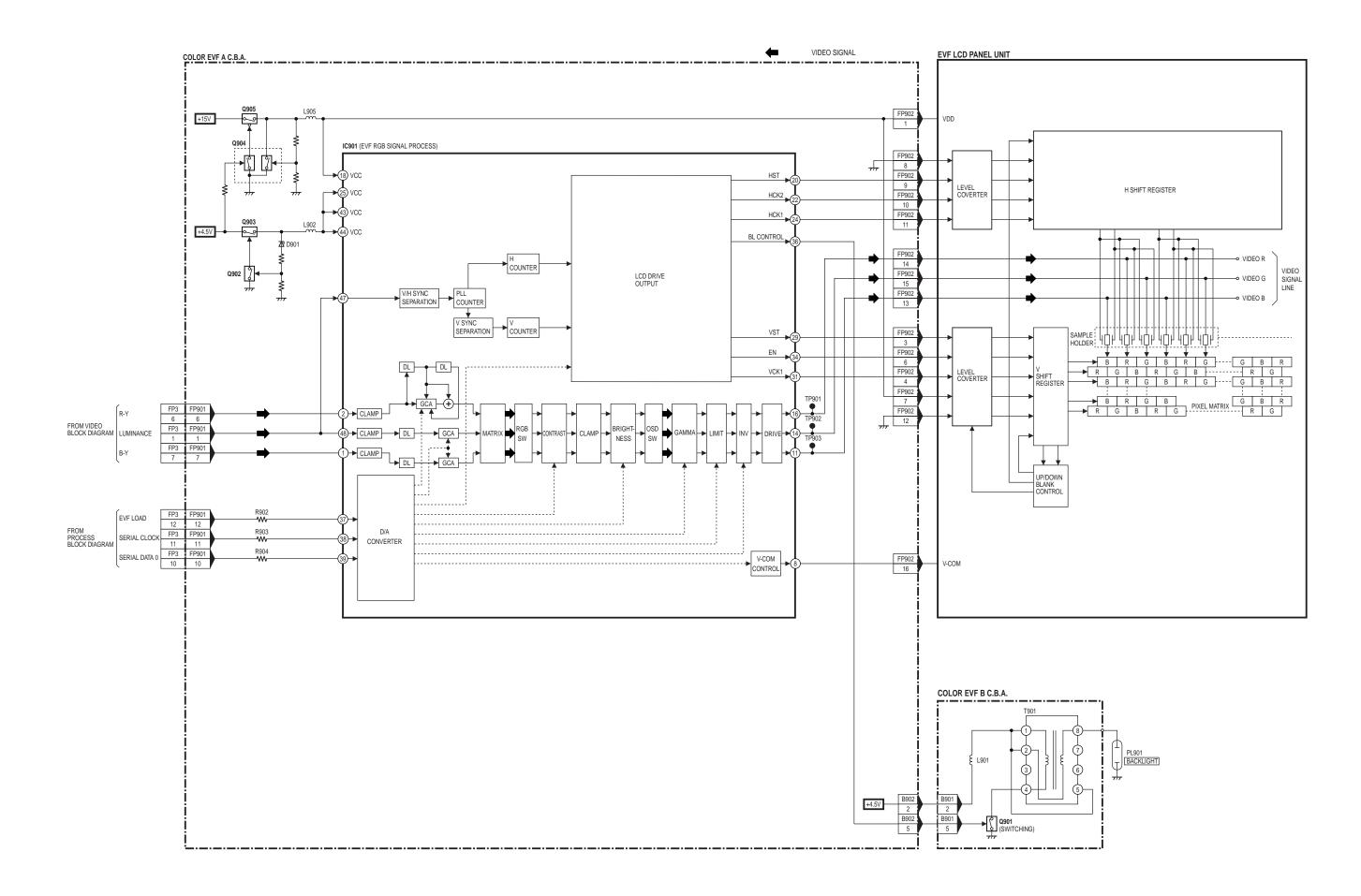
# 10.10. LCD POWER BLOCK DIAGRAM





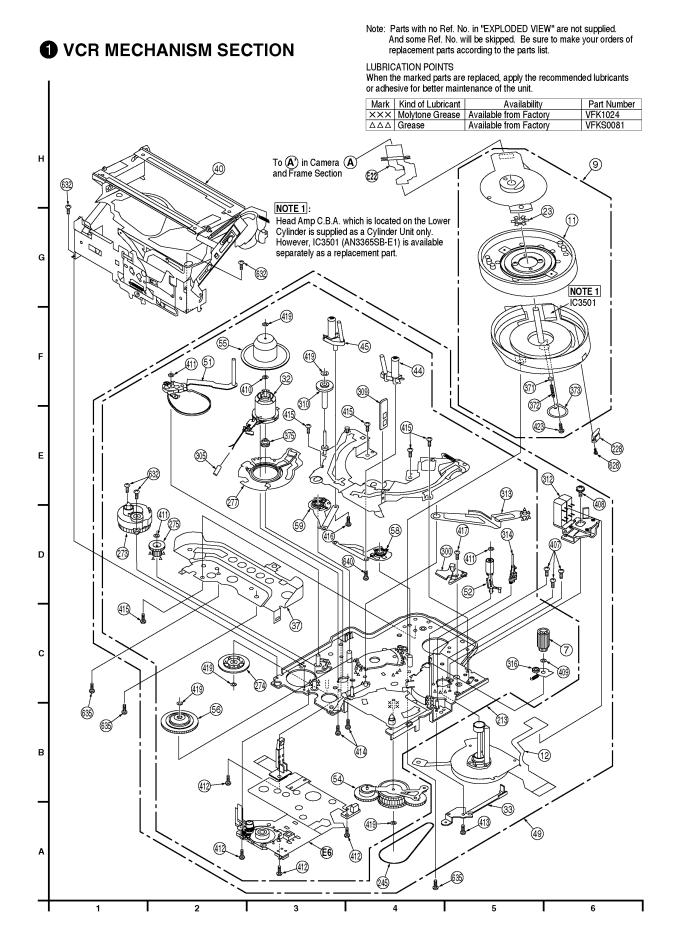
# 10.12. EVF BLOCK DIAGRAM



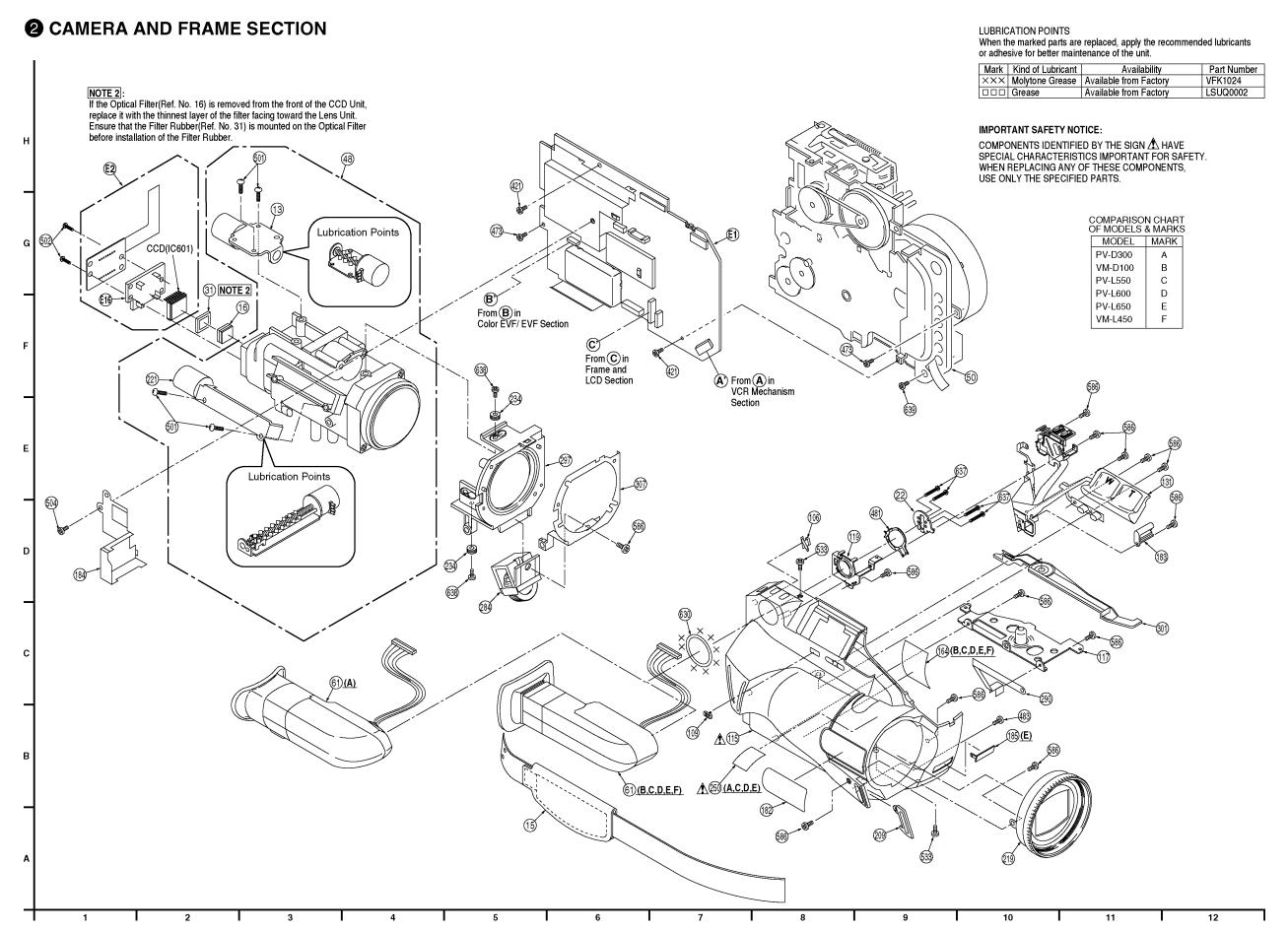


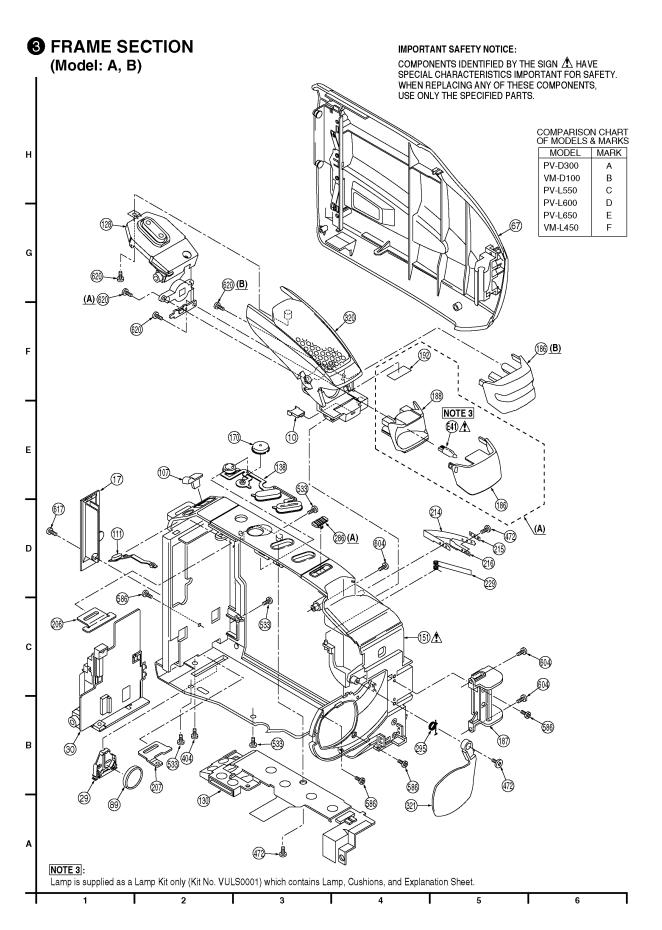
# 11 EXPLODED VIEWS

# 11.1. VCR MECHANISM SECTION

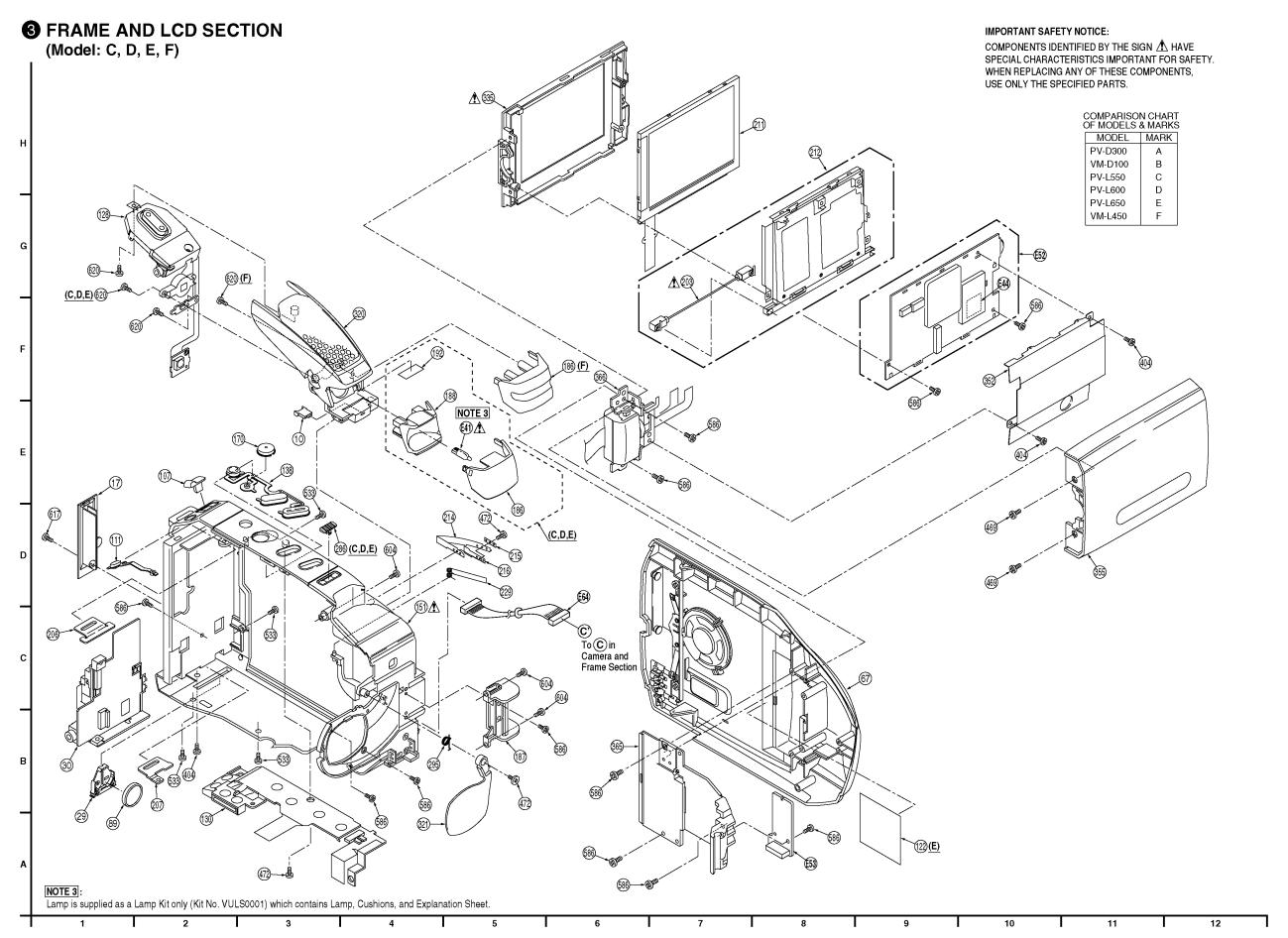


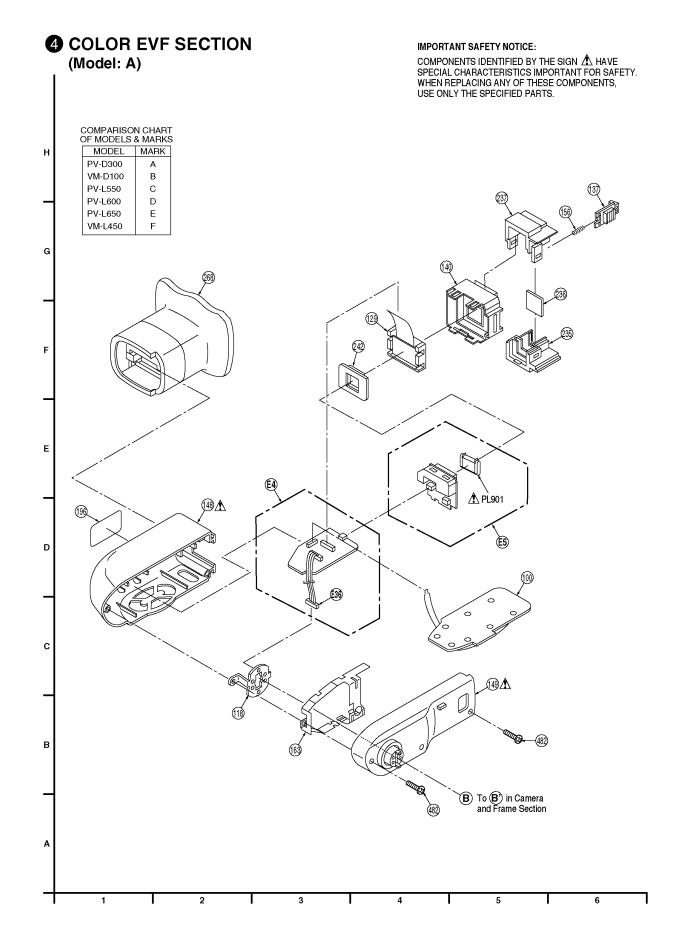
## 11.2. CAMERA AND FRAME SECTION



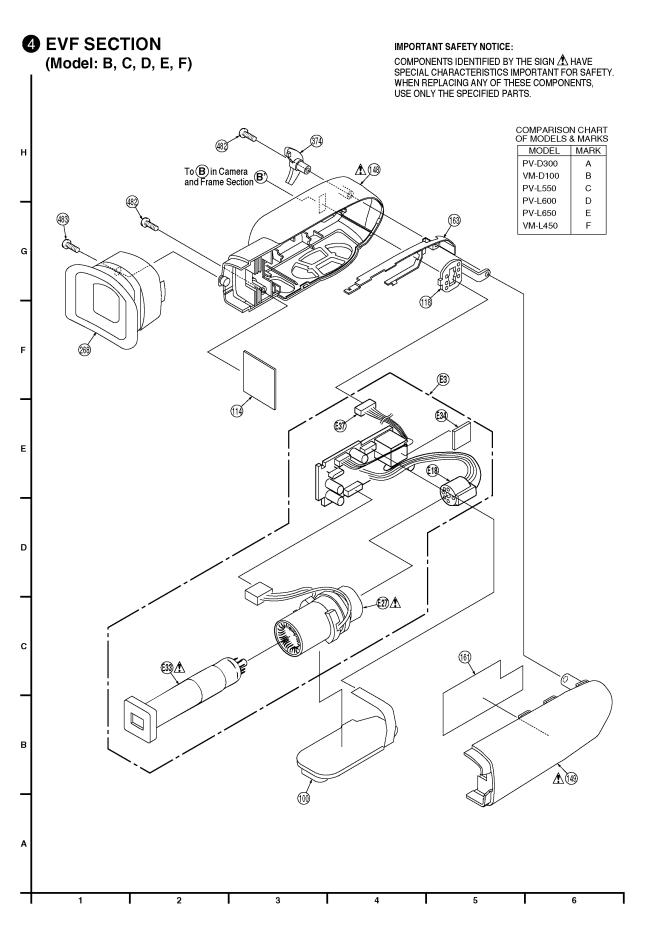


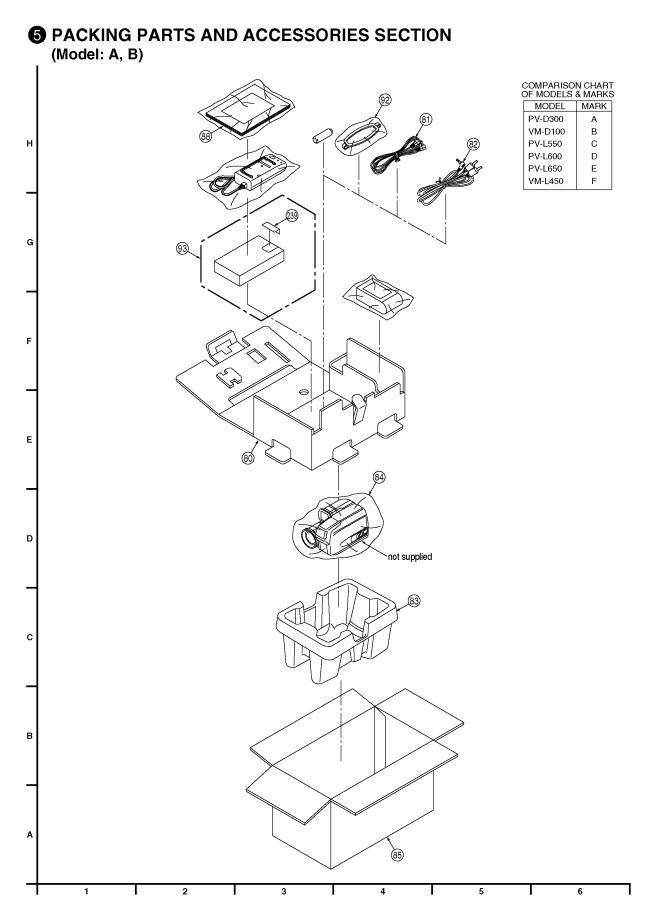
# 11.4. FRAME AND LCD SECTION (C, D, E, F)



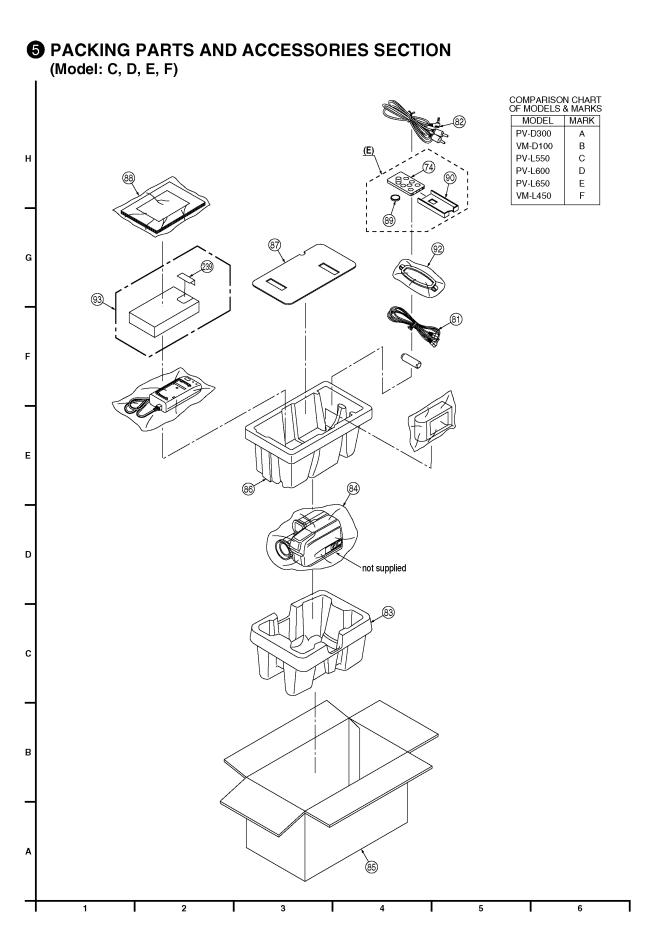


# 11.6. EVF SECTION (B, C, D, E, F)





# 11.8. PACKING PARTS AND ACCESSORIES SECTION (C, D, E, F)



# 12 REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS. READ THE FOLLOWING:

#### 12.1. REPLACEMENT NOTES

#### 12.1.1. General Notes

1. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

#### 2. IMPORTANT SAFETY NOTICE

Components identified by the sign  $\triangle$  have special characteristics important for safety. When replacing any of these components, use only the specified parts.

3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

- 4. Parts with no Ref. No. in "EXPLODED VIEW" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.
- Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
- Parts with mark "VED" in the Remarks column are supplied from VED. Others are supplied from MKE.

#### 12.1.2. Mechanical Replacement Notes

- Section No. of parts shown in Exploded Views are indicated in the Remarks column.
- 2. Abbreviation

RTL: Retention Time Limited

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

- 3. Cut Washers (Ref No. 409, 411, and 419) are not reusable. If removed, install a new one.
- Head Amp C.B.A. which is located on the Lower Cylinder is supplied as a Cylinder Unit only.

However, IC3501 (AN3365SB-E1) is available separately as a replacement part.

 After replacing Mechanism Cassis Ass'y (Ref. No. 49) or Mechanism Chassis Sub Ass'y (Ref. No. 213), perform the Tape Interchangeability Adjustment procedures. Refer to "TAPE INTERCHANGEABILITY ADJUSTMENT."

### 12.1.3. Electrical Replacement Notes

- 1. Item numbers with capital letter E (Example: E1, E2,...) in the Ref. No. column are shown in the exploded views.
- 2. The parts with "■" mark are supplied individually or as a unit. The parts with "▲" mark are supplied individually or as a unit, and are included in "■" parts listed directly above in the parts list.
- 3. Unless otherwise specified;

All resistors are in  $\Omega$ , 1/4 W, ±5 %, carbon, K = 1 000  $\Omega$ , M = 1 000 k $\Omega$ .

All capacitors are in  $\mu F$ ,  $P = \mu \mu F$ ,  $\pm 10$  %.

All coils are in  $\mu$ H, M = 1 000  $\mu$ H,  $\pm$ 10 %.

4. Abbreviation

RTL: Retention Time Limited

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR: Non Repairable Board Ass'y MGF CHIP: Metal Glaze Film Chip

C CHIP: Ceramic Chip

COMPLX CMP: Complex Component W FLMPRF: Wirewound Flameproof

C.B.A.: Circuit Board Assembly P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices

5. SERVICE OF CHIP PARTS

When servicing chip parts, please use a soldering iron of less than 30 watts. Refer to "IC, TRANSISTOR AND CHIP PART INFORMATION" page.

- 6. The parts with "●" are 0 Ω resistor. When replacing, a wire can be substituted for a 0 Ω resistor.
- 7. Lamp Kit (E41) replacement note for models PV-D300, PV-L550, PV-L600, PV-L650:

Lamp is supplied as a Lamp Kit only (Kit No. VULS0001) which contains Lamp, Cushions, and Explanation Sheet.

8. IC306 replacement note:

When replacing this IC, be sure to write the initial data with PC-EVR Adjustment Program.

#### **COMPARISON CHART OF MODELS & MARKS**

MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	Е
VM-L450	F

# 12.2. MECHANICAL REPLACEMENT PARTS LIST

# 12.2.1. MECHANISM PARTS ON CHASSIS

Ref. No.	Part No.	Part Name & Description	Remark s
7	VDGW0072	TAKE GEAR	1
9	VEGS0438	CYLINDER UNIT	1
10	VGLW0088	TALLY LED PANEL	3
11	VEHW0032	UPPER CYLINDER UNIT	1
12	VEMS0337	CAPSTAN UNIT	1
13	LSEM0028	FOCUS MOTOR UNIT	2
15		HAND STRAP, NYLON	
	LSGQ0020	( A,C,D,E )	2
	LSGQ0021	( B,F )	2
16	VFLW0414	OPTICAL FILTER	2
17	VKFW0066	EVR COVER	3
22	VMAW0642	SPRING SUPPORTER	2
23	VMBS0717	PRE-LOAD SPRING	1
29	VMDW0341	BACK UP COVER	3
30		BATTERY CATCHER UNIT	
	LSEQ0549	( A,B )	3
	LSEQ0550	( C,D,E,F )	3
31	LSMG0050	FILTER RUBBER	2
32	VEMW0078	LOADING MOTOR UNIT, 2W	1
33	VMAW0745	P.C.B. ANGLE	1
37	VMAW0744	MECHANISM SUPPORT ANGLE	1
40		CASSETTE UP UNIT	
	VXYS1370	( A,B )	1
	VXYS1369	( C,D,E,F )	1
44	VXDW0196	TAKEUP POST UNIT	1
45	VXDW0187	SUPPLY POST UNIT	1
48	LSXN0007	LENS UNIT	2
49	VXKS0900	MECHANISM CHASSIS ASS'Y	1 RTL
50		VCR MECHANISM CHASSIS ASS'Y	
	VXKS0896	( A,B )	2 RTL
	VXKS0897	( C,D,E,F )	2 RTL
51	VXLW0080	TENSION UNIT	1
52	VXLW0082	PINCH ARM UNIT	1
54	VXLS1124	IDLER ARM UNIT	1
55	VXPW0025	REEL TABLE UNIT	1
56	VXPW0024	REV CLUTCH	1
58	VXLW0078	TAKEUP LOADING ARM UNIT	1
59	VXLW0077	SUPPLY LOADING ARM UNIT	1
61		COLOR ELECTRONIC VIEWFINDER UNIT	
	LSYK0234	( A )	2
	LISTROZSA	ELECTRONIC VIEWFINDER UNIT	_
	LSYK0231	( B,F )	2
	LSYK0232	( C,D,E )	2
67		CASSETTE COVER UNIT	t-
	LSYK0220	(A)	3
	LSYK0219	(B)	3
	LSYK0249	( C,D )	3
	LSYK0250	( E )	3
	LSYK0248	( F )	3
74		INFRARED REMOTE CONTROL UNIT	
	VSQW0038	( E )	5
80		ACCESSORY PACKING CASE, PAPER	
	VPGW0754	( A,B )	5
81	VJAW0029	DC CABLE W/PLUG,6V	5
	OR VJAW030		
82	VJAW0039	AUDIO/VIDEO CABLE W/PLUG, 0V	5
83		CUSHION, PAPER	
	VPNW0049	(A,B)	5
	VPNW0050	( C,D,E,F )	5
		BAG, POLYETHYLENE	5
84	VPFW0049	BAG, FOLIETHILENE	
8 <b>4</b> 85	VPFW0049	PACKING CASE, PAPER	
	VPFW0049 LSPG0751		5
		PACKING CASE, PAPER	
	LSPG0751	PACKING CASE, PAPER ( A )	5

Ref.	Part No.	Part Name & Description	Remark s
	LSPG0749	( E )	5
	LSPG0747	( F )	5
86	VPNW0051	ACCESSORY CUSHION, PAPER ( C,D,E,F )	5
87	VENWOOSI	ACCESSORY PAD	1
ļ .	VPGW0755	( C,D,E,F )	5
88		FAN BAG	
	LSQF0201	( A )	5
	LSQF0205	( B )	5
	LSQF0202	( C,E )	5
	LSQF0215	( D )	5
89	LSQF0206	( F ) BATTERY UNIT	5
89	VSBW0004	( A,B,C,D,F )	3
	VSBW0004	(E)	3,5
90		REMOTE CONTROL HOLDER	<u> </u>
	VGQ6893	(E)	5
92	LSFC0012	SHOULDER BELT	5
93	VYMW0009	CASSETTE ADAPTOR	5
100	VEQW0163	VCR OPERATION UNIT	4
106	VGLW0090	POWER LED PANEL	2
107	VGTW0575	EJECT KNOB	2
111	VGTW0603 LSGU0136	TAPE CHANGE KNOB DISPLAY BUTTON	3
114		EVF DUST COVER	<del>-</del>
I	LSDL0083	(B,C,D,E,F)	4
115		SIDE CASE L,ABS RESIN	
	LSKM0349	( A,C,D )	<u>^</u> 2
	LSKM0348	( B,F )	<u>^</u> 2
	LSKM0387	( E )	<u> </u>
117	VMAW0749	TRIPOD FRAME	2
118	1747110677	EVF PLATE, STEEL	
	VMAW0677 LSMA0416	( A ) ( B,C,D,E,F )	4
119	VMAW0750	EVF ANGLE	2
122	11221101100	BARRIER	<del>-</del>
	VMZW0685	( E )	3
128		MICROPHONE UNIT	
	LSXM0005	( A,C,D )	3
	LSXM0004	( B,F )	3
	LSXM0007	( E )	3
129	LCX032AKB-8	LIQUID CRYSTAL DISPLAY PANEL ( A )	4
130	LCXU32ARB-8	TOP OPERATION UNIT	4
130	LSEQ0553	(A,C,D,E)	3
	LSEQ0554	( B,F )	3
131	LSEQ0556	SIDE L FLEXIBLE PRINTED	2
		CIRCUIT UNIT	
137		LOCK KNOB	
	VGTW0547	( A )	4
138	LSGU0137	TOP OPERATION BUTTON LCD MASK	3
10	LSKF0288	(A)	4
148		EVF CASE A, ABS RESIN	<u> </u>
	LSKM0353	( A )	<b>A</b> 4
	LSKM0302	( B,F )	<b>∆</b> 4
	LSKM0267	( C,D,E )	<b>∆</b> 4
149	1	EVF CASE B,ABS RESIN	<u> </u>
	LSKM0354	( A )	<u> </u>
	LSKM0304 LSKM0268	(B,F)	<u> </u>
151	LSIMIOZ 00	( C,D,E ) SIDE CASE R,ABS RESIN	<u> </u>
	LSKM0342	( A)	<b>∆</b> 3
	LSKM0341	( B )	<u> </u>
	LSKM0344	( C,D )	<u></u> 3
	LSKM0345	(E)	<u> </u>
	LSKM0343	( F )	<u> </u>
156	1	LOCK SPRING	<u> </u>
161	VMBW0235	(A)	4
161	LSQL0878	CAUTION LABEL	4
163	T27T0019	( B,C,D,E,F )  EVF ESD PLATE,STEEL	-
	VSCW0869	(A)	4
	-	4 * · · ·	

Ref. No.	Part No.	Part Name & Description	Remark
	LSSC0324	( B,C,D,E,F )	4
164		CAUTION LABEL	
	VQLS3464	( B,C,D,E,F )	2
170	LSGU0124	EIS BUTTON	3
182	LSQL0877	LENS LABEL	2
183	VMDW0510	ARM HOLDER	2
184	LSSC0326	SENSOR SHIELD CASE, STEEL	2
185		INFRARED PANEL	
	VGLW0089	(E)	2
186		LIGHT PROTECTOR	
	VGFW0020	( A,C,D,E )	3
		LIGHT COVER	
	LSKM0265	( B,F )	3
187	VMDW0509	HINGE R	3
188	VIII	LIGHT REFLECTOR	
100	VMRW0025	( A,C,D,E )	3
192	VIIIWOOZS	LIGHT SHEET, AL	
192	**************************************		2
100	VSCW0935	( A,C,D,E )	3
196	TTOT 121 T.O.T.	EVF LABEL	1
	VQLW1735	( A )	4
203		LAMP UNIT	
	LSXY0146	( C,D,F)	<u> </u>
	LSXY0157	( E )	<u> </u>
206	VMAW0752	STRAP ANGLE A	3
207	VMAW0753	STRAP ANGLE B	3
209	VMAW0754	GRIP ANGLE	2
211		LIQUID CRYSTAL DISPLAY PANEL	
		UNIT	<u> </u>
	LSXY0126	( C )	3
	VXYW0201	( D,F )	3
	VXYW0210	(E)	3
212		LEAD LIGHT PANEL UNIT	
	LSXY0154	( C,D,F )	3
	LSXY0155	(E)	3
213	VXKS0895	MECHANISM CHASSIS SUB ASS'Y	1
214	LSMZ0213	TAPE GUIDE	3
215	LSMZ0210	GUIDE COVER	3
216	LSMZ0210	PROTECTOR	3
219	LSMZ0214	LENS RING UNIT	3
219	T 027700006		_
	LSYK0236	( A,C,D,E )	2
	LSYK0235	( B,F )	2
221	LSEM0025	ZOOM MOTOR UNIT	2
228	VMDW0357	BULGE CHIP	1
229	VMBW0333	TAPE GUIDE SPRING	3
234	LSMT0045	LENS RUBBER	2
235		EVF LENS COVER B	
	VMDW0451	( A )	4
236		PROTECT PLATE, STEEL	
_	LSKG0007	( A )	4
237		EVF LENS COVER A	
	VMDW0450	( A )	4
239	VKFS1021	BATTERY COMPARTMENT LID	5
242		LCD CUSHION	1
	VMGW0204-Y	(A)	4
245	VDVW0003	CAPSTAN BELT	1
	*DVM0003		1
250	T COT OOO	LIGHT CAUTION LABEL	A 2
266	LSQL0880	( A,C,D,E )	<u> </u>
268	TD000000	EYE CAP UNIT	1
	VYKW2901	( A )	4
	LSYK0238	( B,C,D,E,F )	4
273	VXYW0195	REDUCTION GEAR UNIT	1
274	VDGW0063	REDUCTION GEAR A	1
275	VDGW0064	REDUCTION GEAR B	1
277	VXYW0194	MAIN CAM UNIT	1
284	VEQW0294	MANUAL FOCUS VARIABLE	2
		RESISTOR UNIT	
286		LIGHT KNOB	
	LSGT0037	( A,C,D,E )	3
290	VSCW0951	ESD PLATE L, STEEL	2
295	VMBW0306	SHUTTER SPRING	3
293 297	LSMD0231	LENS PIECE	2
300	VMDW0494	OPENER OPENER	1
	V ITILW U 4 7 4	OFERER	-
301	LSML0126	ARM	2

Ref. No.	Part No.	Part Name & Description	Remark s
305	LSWZ0008	TUBE	1
307	LSSC0329	LENS ESD PLATE, STEEL	2
309	VMDW0486	PINCH TAPE GUIDE	1
310	VXJW0095	IMPEDANCE ROLLER UNIT	1
312	VEHS0588	AUDIO CONTROL HEAD UNIT	1
313	VMLW0083	PINCH TOGGLE	1
314	VXLW0081	P5 ARM UNIT	1
316	VXLS1125	REV BRAKE ARM UNIT	1
320	VYKW3139	MICROPHONE CASE UNIT	3
321	VKFW0065	WING	3
335		LCD CASE B,ABS RESIN	
	LSKM0332	( C )	<u> </u>
	VKMW1805	( D,F )	<u> </u>
	VKMW1798	(E)	<u> </u>
352		LCD SHIELD CASE, STEEL	
	VSCW0966	( C,D,F )	3
	VSCW0957	(E)	3
355		LCD CASE A UNIT, ABS RESIN	
	LSYK0265	( C,D )	3
	LSYK0266	(E)	3
	LSYK0245	(F)	3
365		CASSETTE FRAME	
	LSMP0224	( C,D,F )	3
	LSMP0225	(E)	3
366		LCD SHAFT UNIT	
	LSXA0301	( C,D,E )	3
	LSXA0300	(F)	3
371	LSSA0002	EARTH CONTACT	1
372	LSMB0168	CONTACT SPRING	1
373	LSMA0336	CONTACT PLATE, STEINLESS	1
374		EVF PIECE	
	LSKM0270	( C,D,E )	4
	LSKM0300	(B,F)	4
375	VDGW0059	MOTOR GEAR	1

## 12.2.2. SCREWS AND WASHERS

Ref.	Part No.	Part Name & Description	Remark
No.			s
404	XQN2+BF3FXK	SCREW, STEEL	3
407	XQN16+A32	SCREW, STEEL	1
408	VHDW0124	SCREW W/WASHER,STEEL	1
409	VMXW0217	CUT WASHER, STEEL	1
410	XWGV15Z32G	POLY SLIDER WASHER	1
411	VMXW0213	CUT WASHER, STEEL	1
412	XQN2+B35	SCREW, STEEL	1
413	XQN2+A22	SCREW, STEEL	1
414	XQN14+A32	SCREW, STEEL	1
415	XQN2+B22	SCREW, STEEL	1
416	XQN14+BJ25FZ	SCREW, STEEL	1
417	XQN2+B2	SCREW, STEEL	1
419	VMX2026	CUT WASHER, STEEL	1
421	XQN16+BF4FN	SCREW, STEEL	2
423	XQN16+B3FN	SCREW, STEEL	1
469		SCREW, STEEL	
	XQN2+BF4FXK	( C,D,E,F )	3
472	VHDW0102	SCREW, STEEL	3
473	VHDW0100	SCREW, STEEL	2
481	VMBW0253	WASHER, STEEL	2
482	XQN2+CJ12FXK	SCREW, STEEL	4
483	XQN2+BJ4FXK	SCREW, STEEL	2,4
501	XQN16+CJ5FY	SCREW, STEEL	2
502	XQN16+CJ6	SCREW, STEEL	2
504	XQN2+CF3	SCREW, STEEL	2
533	XQN2+BF5FXK	SCREW, STEEL	2,3
586	XQN2+BJ5FXK	SCREW, STEEL	2,3
604	XQN2+BJ8FXK	SCREW, STEEL	3
617	XQN2+BJ10FXK	SCREW, STEEL	3
620	XQN2+BJ6FXK	SCREW, STEEL	2
628	XQN16+B3FU	SCREW, STEEL	1
630	VMXW0175	WASHER, NYLON	2
632	XQN14+B3	SCREW, STEEL	1

Ref.	Part No.	Part Name & Description	Remark s
635	XQN16+C5FU	SCREW, STEEL	1
637	XQN2+CF10FU	SCREW, STEEL	2
638	VHDW0120	SCREW, STEEL	2
639	LSHD0049	SCREW, STEEL	2
640	LSHD0054	SCREW, STEEL	1

## 12.2.3. SERVICE FIXTURE AND TOOLS

Ref.	Part No.	Part Name & Description	Remark
	VFKS002	LIGHT BOX W/CHARTS SET	+ -
	VFKS002A	GLAY SCALE CHART	
	VFKS002B	COLOR BAR CHART	
	VFKS002C	REGISTRATION CHART	
	VFKS002D	RESOLUTION CHART	
	VFKS002Y	LIGHT BOX	
	VFKS003-N	REFLECTION CHART SET	
	VFKS003A	GLAY SCALE CHART	
	VFKS003B	COLOR BAR CHART	
	VFKS003E	REGISTRATION CHART	
	VFKS003D	RESOLUTION CHART	17770
	VFK1164TFWC2	WHITE CHART	VED
	VFK1164TFGS2	GRAY SCALE CHART	VED
	VFK1164TFCB2	COLOR BAR CHART	VED
	VFK1164TFCT2	CONVERSION FILTER	VED
	VFK1164LBX1	LIGHT BOX	VED
	VFK1164TCM02	COLLIMATOR (INFINITY LENS) (WITH FOCUS CHART)	VED
	VFK1164TLA01	LAMP	VED
	VFK1164TAR58	ATTACHMENT RING (58mm)	VED
	VFK1164TAR55	ATTACHMENT RING (55mm)	VED
	VFK1164TAR52	ATTACHMENT RING (52mm)	VED
	VFK1164TAR49	ATTACHMENT RING (49mm)	VED
	VFK1164TAR46	ATTACHMENT RING (46mm)	VED
	VFK1164TAR43	ATTACHMENT RING (43mm)	VED
	VFK1164TAR37	ATTACHMENT RING (37mm)	VED
	+	ATTACHMENT RING (30.5mm)	VED
	+	ATTACHMENT RING (27mm)	VED
	VFMS0004H6C	VHS-C ALIGNMENT TAPE	1
	VFMW0001C	VHS-C ALIGNMENT TAPE	
	VFK27	HEAD CLEANING STICK	
	VFKS0081	GREASE	
	LSUQ0002	GREASE	
	<del>                                     </del>		
	VFK1024	MOLYTONE GREASE	
	VUVS0007	EXTENSION CABLE 12P	
	LSUA0020	EXTENSION CABLE 20P	
	VUVS0012	EXTENSION CABLE 22P	
	VUVS0015	EXTENSION CABLE 28P	
		TP BOARD KIT	
	LSUP0005A	TP ADJUSTMENT CABLE 40P	
	VFKW0123B	TP ADJUSTMENT PCB 40P	
	LSUP0005C	TP CLIP 36P	
	VFKW0066	A.W.B. ADJUSTMENT FIXTURE	
	VFKW0116	COLOR CHIP CHART	
	VJAW0032	AUDIO VIDEO CABLE	
	VFKW1000	CAAS KIT	
	VFKW1000A	INTERFACE BOX	
	VFKW1000B	CAMERA CONNECTING CABLE	
	VFKW1000C	9PIN RS-232C CABLE	
	VFKW1000D	25PIN RS-232C CABLE	
	VHDW0125	LOCK SCREW	
	LSEQ0556	SIDE L FPC UNIT	
	T.SEO0549	BATTERY CATCHER UNIT	
	LSEQ0549	( A,B )	
	LSEQ0550	( C,D,E,F ) EVF UNIT	
	LSYK0232	(B,C,D,E,F)	
	20110232		
	LSYK0234	( A,B )	

# 12.3. ELECTRICAL REPLACEMENT PARTS LIST

	PRINTED	CIRCUIT BOARD ASSEMBLY	
Ref. No.	Part No.	Part Name & Description	Remark s
E1	LSEP8024E1	MAIN C.B.A.	E.S.D.
	( A )		
E1	LSEP8024D1	MAIN C.B.A.	E.S.D.
	(B)		
E1	LSEP8024A1	MAIN C.B.A.	E.S.D. RTL
	(C)		
E1	LSEP8024F1	MAIN C.B.A.	E.S.D. RTL
	( D )		
E1	LSEP8024C1	MAIN C.B.A.	E.S.D. RTL
	(E)		
E1	LSEP8024B1	MAIN C.B.A.	E.S.D.
	(F)		
E2	LSEQ0547	CCD C.B.A.	E.S.D.
E3	LSEQ0558	ELECTRONIC VIEWFINDER C.B.A.	RTL
	( B,C,D,E,F		
E4	LSEP8035A1	COLOR ELECTRONIC VIEWFINDER A C.B.A.	■ RTL
	( A )		
E5	VEPW1671A1	COLOR ELECTRONIC VIEWFINDER B C.B.A.	■ RTL
	( A )		
E52	LSEP8030A1	LIQUID CRYSTAL DISPLAY C.B.A.	RTL
	( C )		
E52	LSEP8030B1	LIQUID CRYSTAL DISPLAY C.B.A.	RTL
	( D,F )		
E52	LSEP8031A1	LIQUID CRYSTAL DISPLAY C.B.A.	■ RTL
	( E )		
E53	LSEP8033A1	RELAY C.B.A.	
	( C,D,E,F )		

# 12.3.1. MAIN C.B.A. ■

INTEGRATED CIRCUITS

	EGRATED CIRCUITS	
Part No.	Part Name & Description	Remark
		s
MN67324	IC, LOGIC DIGITAL SIGNAL	E.S.D.
	PROCESSOR	
BR9040FV-DE2	IC, 4K EEP ROM	E.S.D.
MN102L62FCA	IC, 16BIT MICROCONTROLLER	E.S.D.
BA10324AFVE1	IC, LINEAR HALL/IRIS AMP	
OR LM324DB	IC, LINEAR HALL/IRIS AMP	
MN5293-1	IC, CMOS GATE ARRAYS TIMING	E.S.D.
	SIGNAL GENERATOR	
MN3112SA-E1	IC, CMOS STANDARD LOGIC CCD V	E.S.D.
	DRIVE	
AN2109NFHQ	IC, LINEAR SAMPLING HOLD	
LB1837M-TE-L	IC, LINEAR MOTOR DRIVE	
OR	IC, LINEAR MOTOR DRIVE	
LB1837MLTEL3		
OR	IC, LINEAR MOTOR DRIVE	
LB1837MTEL3		
LB1837M-TE-L	IC, LINEAR MOTOR DRIVE	
OR	IC, LINEAR MOTOR DRIVE	
LB1837MLTEL3		
OR	IC, LINEAR MOTOR DRIVE	
LB1837MTEL3		
BA9710KV	IC, LINEAR POWER CONTROL	
	Part No.  MN67324  BR9040FV-DE2  MN102L62FCA  BA10324AFVE1  OR LM324DB  MN5293-1  MN3112SA-E1  AN2109NFHQ  LB1837M-TE-L  OR  LB1837MLTEL3  OR  LB1837MLTEL3  OR  LB1837MLTEL3  OR  LB1837MLTEL3  OR  LB1837MLTEL3  OR  LB1837MLTEL3	Part No. Part Name & Description  MN67324 IC, LOGIC DIGITAL SIGNAL PROCESSOR  BR9040FV-DE2 IC, 4K EEP ROM  MN102L62FCA IC, 16BIT MICROCONTROLLER  BA10324AFVE1 IC, LINEAR HALL/IRIS AMP  OR LM324DB IC, LINEAR HALL/IRIS AMP  MN5293-1 IC, CMOS GATE ARRAYS TIMING SIGNAL GENERATOR  MN3112SA-E1 IC, CMOS STANDARD LOGIC CCD V DRIVE  AN2109NFHQ IC, LINEAR SAMPLING HOLD  LB1837M-TE-L IC, LINEAR MOTOR DRIVE  OR IC, LINEAR MOTOR DRIVE  OR  LB1837MTEL3  OR  LC, LINEAR MOTOR DRIVE  OR  LB1837MLTEL3  OR  IC, LINEAR MOTOR DRIVE  OR  LB1837MLTEL3  OR  LC, LINEAR MOTOR DRIVE  IC, LINEAR MOTOR DRIVE  OR  LB1837MLTEL3  OR  LC, LINEAR MOTOR DRIVE  IC, LINEAR MOTOR DRIVE  IC, LINEAR MOTOR DRIVE  LB1837MLTEL3

		FV-D300 / VW-D100 / FV-L330 / FV-L000	
Ref. No.	Part No.	Part Name & Description	Remark s
IC2001	AN3897FH	IC, LINEAR CYLINDER/CAPSTAN MOTOR DRIVE CONTROL	
IC2002	UN224-TX	IC, LINER POWER TRANSISTOR MOTOR DRIVE	
IC2003	UN224-TX	IC, LINER POWER TRANSISTOR MOTOR DRIVE	
IC3001	AN2401NFH	IC, LINEAR Y/C REC/PB PROCESS	
IC3002	MN38663S	IC, CCD 1H DELAY	E.S.D.
IC4001	BA7757BK	IC, LINEAR AUDIO REC/PB PROCESS	
IC6001	MN101D02FWD1	IC, 8BIT MICROCONTROLLER	E.S.D.
IC6002	R3111Q391ATR	IC, LINEAR RESET	
	OR S80839ANNPT2	IC, LINEAR RESET	
	OR XC61CN3902NR	IC, LINEAR RESET	
IC6005	S3510AEFJTB	IC, PERIPHERAL MCU CLOCK IN	E.S.D.
IC6006	RH5RE45AA-T1	IC, PERIPHERAL MCU+4.5 REGULATOR	E.S.D.
	OR XC62FP4502PR	1 - ,	E.S.D.
IC6007	BA6288FS-E2	IC, LINEAR LOADING MOTOR DRIVE	
IC6203	CNB10010RL	TAKEUP REEL SENSOR	

TRANSISTORS

		TRANSISTORS	
Ref. No.	Part No.	Part Name & Description	Remark s
Q301	2SC4081T106R	CHIP	
<u>Q</u> 301	OR 2SD1819A	CHIP	
Q302	2SC3931	CHIP	
Q303	2SA1576A106R	CHIP	
2	OR 2SB1218A	CHIP	
Q305	2SC4081T106R	CHIP	
~	OR 2SD1819A	CHIP	
Q306	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q307	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q310	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q311	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q617	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q703	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1001	DTA114EU	CHIP	
	OR UN5111	CHIP	
Q1002	DTA144EU	CHIP	
	OR UN5113	CHIP	
Q1003	DTA114TU	CHIP	
	OR UN5115	CHIP	
Q1005	2SB1628-T1ZX	CHIP	
	OR 2SB1628- T1ZY	CHIP	
Q1006	MPL1-TL	CHIP	
Q1007	2SB1424T100P	CHIP	
	OR 2SB1424T100Q	CHIP	
Q1008	MPL1-TL	CHIP	
Q1009	MPL1-TL	CHIP	
Q1010	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q1011	IMX1T108	COMPLX CMP SI NPN CHIP	
	OR XN4501	COMPLX CMP SI NPN CHIP	
Q1012	2SB1073	CHIP	
	OR 2SB1386T100Q	CHIP	
	OR	CHID	
	2SB1386T100R	CHIP	
Q1014	2SB1073	CHIP	
	OR 2SB1386T100Q	CHIP	
	OR 2SB1386T100R	CHIP	

/ VM-D100	/ PV-L550 / PV-L600	/ PV-L650 / VM-L450	
Ref.	Part No.	Part Name & Description	Remark s
Q1015	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1020	2SB1073	CHIP	
	OR	CHIP	
	2SB1386T100Q		
	OR 2SB1386T100R	CHIP	
	( C,D,E,F )		
Q1021	DTC124EU	CHIP	
2-0	OR UN5212	CHIP	
	( C,D,E,F )		
Q1101	2SA2014-TD	CHIP	
	( A,C,D,E )		
Q1102	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
	( A,C,D,E )		
Q1103	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
	( A,C,D,E )		
Q1104	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	1
<u> </u>	( A,C,D,E )		1
Q1105	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	1
01100	( A,C,D,E )	CHID	1
Q1106	2SA1576A106R OR 2SB1218A	CHIP	
	( A,C,D,E )	CHIP	1
Q3003	2SA1576A106R	CHIP	
25005	OR 2SB1218A	CHIP	
Q3004	2SC3931	CHIP	
Q3005	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q3021	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q3022	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q3027	2SC4081T106R	CHIP	1
	OR 2SD1819A	CHIP	1
Q3028	2SC4081T106R	CHIP	1
	OR2SD1819A ( A,C,D,E,F	CHIP	
	( A,C,D,E,F		
Q3029	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
	( A,C,D,E,F		
	)		1
Q4002	IMZ1T108	COMPLX CMP SI NPN/PNP CHIP	
04000	OR XN4601	COMPLX CMP SI NPN/PNP CHIP	1
Q4003	2SC4081T106R OR 2SD1819A	CHIP	1
Q4004	2SC4081T106R	CHIP	+
	OR 2SD1819A	CHIP	1
Q4007	2SA1576A106R	CHIP	1
	OR 2SB1218A	CHIP	İ
Q4008	2SD2432 (R)	CHIP	
	OR 2SD602(R)	CHIP	
	OR	CHIP	
04000	2SD602A (R)	CHIP	+
Q4009	2SC4081T106R	CHIP	+
Q4010	OR 2SD1819A 2SB1585	CHIP	+
2.010	OR 2SB970	CHIP	+
Q4011	2SC4081T106R	CHIP	1
<u> </u>	OR 2SD1819A	CHIP	1
Q6004	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q6005	DTC124TU	CHIP	
	OR UN5217	CHIP	
Q6006	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	1
0000	( E )		1
Q6008	DTC124TU	CHIP	1
	OR UN5217	CHIP	1

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Ref.	Part No.	Part Name & Description	Remark
No.			s
Q6009	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q6010	DTC124EU	CHIP	
	OR UN5212	CHIP	
Q6011	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q6012	2SK1958	F.E.T. CHIP	
Q6013	2SC2412K1	CHIP	
	OR 2SD601A	CHIP	
Q6018	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q6021	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q6022	2SC4081T106R	CHIP	
	OR2SD1819A	CHIP	

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		DIODES	
Ref.	Part No.	Part Name & Description	Remark s
D1001	RD12S-T1B	ZENER CHIP 12V	
D1002	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1004	EP10QY03TE8L	CHIP	
D1005	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1006	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1007	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1008	MA728	CHIP	
D1101	RD12S-T1B	ZENER CHIP 12V	
	( A,C,D,E )		
D1102	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
	( A,C,D,E )		
D4001	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D4002	MA3120WA	ZENER CHIP 12V	
D6001	DAN202UT	CHIP	
	OR MA142WK	CHIP	
D6005	DAP202UT	CHIP	
	OR MA142WA	CHIP	
D6008	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D6015	DA204U	CHIP	
	OR MA143	CHIP	
D6019	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	

#### RESISTORS

	1	RESISTORS	
Ref.	Part No.	Part Name & Description	Remark
No.			s
R301	ERJ3GEYJ122V	MGF CHIP 1/16W 1.2K	
R302	VRJSD3D6800	MGF CHIP +-0.5% 1/16W 680	
R303	ERJ3GEYG102V	MGF CHIP +-2% 1/16W 1K	
R304	VRJSD3D2201	MGF CHIP +-0.5% 1/16W 2.2K	
R305	VRJSD3D2201	MGF CHIP +-0.5% 1/16W 2.2K	
R306	ERJ3GEYJ391V	MGF CHIP 1/16W 390	
R307	ERJ3GEYG103V	MGF CHIP +-2% 1/16W 10K	
R308	ERJ3GEYG391V	MGF CHIP +-2% 1/16W 390	
R309	ERJ3GEYG102V	MGF CHIP +-2% 1/16W 1K	
R310	ERJ3GEYG102V	MGF CHIP +-2% 1/16W 1K	
R311	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R314	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R315	ERJ3GEYG181V	MGF CHIP +-2% 1/16W 180	
R316	ERJ3GEYJ121V	MGF CHIP 1/16W 120	
R317	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R318	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
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Ref.	Part No.	Part Name & Description	Remark
	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R320	ERJ3GEYJ561X	MGF CHIP 1/16W 560	
R321	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R322	ERJ3GEYJ272X	MGF CHIP 1/16W 2.7K	
R323	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R333	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R336	ERJ3GEYJ473X	MGF CHIP 1/16W 47K	
R340		MGF CHIP 1/16W 3.3K	
R342		MGF CHIP 1/16W 2.2K	
R343		MGF CHIP 1/16W 220	
R344		MGF CHIP 1/16W 1.5K	
R345		MGF CHIP 1/16W 100K	
R346		MGF CHIP 1/16W 47K	
R347	ERJ3GEYJ123X	MGF CHIP 1/16W 1/K	
R348		MGF CHIP 1/16W 100K	
R349		MGF CHIP 1/16W 56K	
R350		MGF CHIP 1/16W 8.2K	+
R351		MGF CHIP 1/16W 150K	
R352		MGF CHIP 1/16W 82K	
R353		MGF CHIP 1/16W 5.6K	
R355		MGF CHIP 1/16W 330K	4
R356	ERJ3GEYJ394V	MGF CHIP 1/16W 390K	1
R357	ERJ3GEYJ474V	MGF CHIP 1/16W 470K	
R358	ERJ3GEYJ123X	MGF CHIP 1/16W 12K	
R359	ERJ3GEYJ123X	MGF CHIP 1/16W 12K	
R360	ERJ3GEYJ331X	MGF CHIP 1/16W 330	
R361		MGF CHIP 1/16W 1K	
R362		MGF CHIP 1/16W 100	
R363		MGF CHIP 1/16W 12K	
R364		MGF CHIP 1/16W 4.7K	1
R365		MGF CHIP +-10% 1/16W2.2M	
R366		MGF CHIP 1/16W 1K	+
R367		MGF CHIP 1/16W IK MGF CHIP 1/16W 22K	+
R368		MGF CHIP 1/16W 27K	
R369		MGF CHIP 1/16W 39K	
R370		MGF CHIP 1/16W 4.7K	
R372	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R373	ERJ3GEYJ303V	MGF CHIP 1/16W 30K	
R374	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R375	ERJ3GEYJ333X	MGF CHIP 1/16W 33K	
R376	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R377	ERJ3GEYJ333X	MGF CHIP 1/16W 33K	
R378	ERJ3GEYJ333X	MGF CHIP 1/16W 33K	
R379	ERJ3GEYJ822V	MGF CHIP 1/16W 8.2K	
R380	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R381	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R382		MGF CHIP 1/16W 1K	
R383	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
		MGF CHIP 1/16W 0	+
R384			
R385		MGF CHIP 1/16W 220	+
R386	ERJ3GEYJ101X	MGF CHIP 1/16W 100	+
R387		MGF CHIP 1/16W 100	+
R388		MGF CHIP 1/16W 100	4
R389		MGF CHIP 1/16W 100	1
R390	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
R391	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R393	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R394	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R395	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R399	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R402		MGF CHIP +-2% 1/16W 4.7K	
R427	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
R431	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
R432		MGF CHIP 1/16W 100K	
R436		MGF CHIP 1/16W 1K	1
R603	ERJ3GEY0R00X	MGF CHIP 1/16W 1K	•
			+
R605	ERJ3GEYJ331X	MGF CHIP 1/16W 330	
R608		MGF CHIP 1/16W 100	+
R609		MGF CHIP 1/16W 680	-
R613	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	1
R616 R617 R618	ERJ3GEY0R00X ERJ3GEY0R00X	MGF CHIP 1/16W 0 MGF CHIP 1/16W 0	•

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Ref.	Part No.	Part Name & Description	Remark
No.			s
R619	ER.T3GEYOROOX	MGF CHIP 1/16W 0	•
R620	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	ļ
R623	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R625	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
		·	
R630	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R635	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R639	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R641			•
		MGF CHIP 1/16W 0	+=
R643	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R644	ERJ3GEYJ330V	MGF CHIP 1/16W 33	
R645	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
		·	+=
R646	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R650	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R651	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
			1
R652		MGF CHIP 1/16W 1K	<u> </u>
R653	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R655	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R656	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R659	ERJ3GEYJ562X	MGF CHIP 1/16W 5.6K	
R662	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R677	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
		•	<del>                                     </del>
R680		MGF CHIP 1/16W 330	<u> </u>
R683	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
R684	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R686	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
		•	_
R701	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R702	ERJ3GEYJ104X	MGF CHIP 1/16W 100K	L
R703		MGF CHIP 1/16W 100K	
			<u> </u>
R704	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	ļ
R705	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R706	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R707		MGF CHIP 1/8W 100	
			1
R708	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R709	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R710	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	1
			1
R711	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R712	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R713	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R714		MGF CHIP 1/16W 3.3K	
			1
R715	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R718	ERJ3GEYJ562X	MGF CHIP 1/16W 5.6K	
R719	ER.T3GEY.T183X	MGF CHIP 1/16W 18K	İ
			1
R720		MGF CHIP 1/16W 110K	ļ
R721	ERJ3GEYJ183X	MGF CHIP 1/16W 18K	
R722	ERJ3GEYJ114V	MGF CHIP 1/16W 110K	
R723		MGF CHIP 1/16W 36K	<u> </u>
R724	ERJ3GEYJ363V	MGF CHIP 1/16W 36K	
R726	ERJ3GEYJ562X	MGF CHIP 1/16W 5.6K	
R730	ER.T3GEY.T562X	MGF CHIP 1/16W 5.6K	İ
		-	
R732		MGF CHIP 1/16W 5.6K	
R734	ERJ3GEYJ473X	MGF CHIP 1/16W 47K	
R735	ERJ3GEYJ363V	MGF CHIP 1/16W 36K	
R735			
	ERJ3GEY.T363V	MGF CHIP 1/16W 36K	
R736		MGF CHIP 1/16W 36K	
R736 R737	ERJ3GEYJ114V	MGF CHIP 1/16W 110K	
R736	ERJ3GEYJ114V		
R736 R737 R738	ERJ3GEYJ114V ERJ3GEYJ183X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K	
R736 R737 R738 R739	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K	
R736 R737 R738 R739 R740	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K	
R736 R737 R738 R739	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K	
R736 R737 R738 R739 R740	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K	
R736 R737 R738 R739 R740 R743	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9	
R736 R737 R738 R739 R740 R743 R744	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9	
R736 R737 R738 R739 R740 R743 R744 R745 R746	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V ERJ3GEYJ332X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K	
R736 R737 R738 R739 R740 R743 R744	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V ERJ3GEYJ332X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9	
R736 R737 R738 R739 R740 R743 R744 R745 R746	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ352X ERJ3GEYJ352X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 110K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1M MGF CHIP 1/16W 1M	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751 R756	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ352X ERJ3GEYJ352X ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ105V	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 110K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1M MGF CHIP 1/16W 1M MGF CHIP 1/16W 100	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751 R756 R757	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ352X ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ101X ERJ3GEYJ103X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1.0M MGF CHIP 1/16W 1M MGF CHIP 1/16W 100 MGF CHIP 1/16W 47K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751 R756	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ352X ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ101X ERJ3GEYJ103X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 110K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1M MGF CHIP 1/16W 1M MGF CHIP 1/16W 100	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751 R756 R757	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ101X ERJ3GEYJ473X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1.0M MGF CHIP 1/16W 1M MGF CHIP 1/16W 100 MGF CHIP 1/16W 47K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751 R756 R757 R758 R1003	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ101X ERJ3GEYJ173X ERJ3GEYJ473X ERJ3GEYJ102X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 110K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1.0M MGF CHIP 1/16W 1M MGF CHIP 1/16W 100 MGF CHIP 1/16W 47K MGF CHIP 1/16W 47K MGF CHIP 1/16W 1K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751 R756 R757 R758 R1003 R1004	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ101X ERJ3GEYJ101X ERJ3GEYJ473X ERJ3GEYJ473X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 110K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3M MGF CHIP 1/16W 1M MGF CHIP 1/16W 1M MGF CHIP 1/16W 100 MGF CHIP 1/16W 47K MGF CHIP 1/16W 47K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751 R756 R757 R758 R1003	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ101X ERJ3GEYJ101X ERJ3GEYJ473X ERJ3GEYJ473X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 110K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3K MGF CHIP 1/16W 1.0M MGF CHIP 1/16W 1M MGF CHIP 1/16W 100 MGF CHIP 1/16W 47K MGF CHIP 1/16W 47K MGF CHIP 1/16W 1K	
R736 R737 R738 R739 R740 R743 R744 R745 R746 R747 R748 R749 R750 R751 R756 R757 R758 R1003 R1004	ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ114V ERJ3GEYJ183X ERJ3GEYJ332X ERJ8GEYJ3R9V ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ332X ERJ3GEYJ105V ERJ3GEYJ105V ERJ3GEYJ101X ERJ3GEYJ101X ERJ3GEYJ473X ERJ3GEYJ473X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X	MGF CHIP 1/16W 110K MGF CHIP 1/16W 18K MGF CHIP 1/16W 110K MGF CHIP 1/16W 110K MGF CHIP 1/16W 3.3K MGF CHIP 1/8W 3.9 MGF CHIP 1/8W 3.9 MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 1.3M MGF CHIP 1/16W 1M MGF CHIP 1/16W 1M MGF CHIP 1/16W 100 MGF CHIP 1/16W 47K MGF CHIP 1/16W 47K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K	

	/ PV-L550 / PV-L600		
Ref. No.	Part No.	Part Name & Description	Remark s
R1008	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R1009	VRJSD3D1801	MGF CHIP +-0.5% 1/16W 1.8K	
R1010	VRJSD3D1801	MGF CHIP +-0.5% 1/16W 1.8K	
R1011	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R1012	VRJSD3D5101	MGF CHIP +-0.5% 1/16W 5.1K	
R1013	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R1014		MGF CHIP 1/16W 2.2K	
R1015		MGF CHIP 1/16W 10K	
R1016		MGF CHIP 1/16W 22K	
R1017	+	MGF CHIP 1/16W 33K	
R1019		MGF CHIP 1/16W 100K	
R1020	1	MGF CHIP 1/16W 100	
R1021		MGF CHIP 1/16W 0	•
R1022	ERJ3GEYJ270V	MGF CHIP 1/16W 27	
R1023	ERJ3GEYJ223X	MGF CHIP 1/16W 22K	
R1024	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R1025	ERJ3GEYJ681X	MGF CHIP 1/16W 680	
R1026	ERJ3GEYJ470V	MGF CHIP 1/16W 47	
R1027	ERJ3GEYJ470V	MGF CHIP 1/16W 47	
R1028	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R1029		MGF CHIP 1/16W 0	•
R1030		MGF CHIP 1/16W 47	
R1031	VRJSD3D6801	MGF CHIP +-0.5% 1/16W 6.8K	1
R1032	VRJSD3D2401	MGF CHIP +-0.5% 1/16W 2.4K	<u> </u>
R1032		MGF CHIP +-0.5% 1/16W 22	<b>†</b>
			<del>                                     </del>
R1034		MGF CHIP +-0.5% 1/16W 5.6K	<b> </b>
R1035	VRJSD3D2701	MGF CHIP +-0.5% 1/16W 2.7K	<b> </b>
R1036	VRJSD3D68R0	MGF CHIP +-0.5% 1/16W 68	<b> </b>
R1037	VRJSD3D2702	MGF CHIP +-0.5% 1/16W 27K	ļ
R1038	VRJSD3D1001	MGF CHIP +-0.5% 1/16W 1K	ļ
R1039	VRJSD3D2401	MGF CHIP +-0.5% 1/16W2.4K	ļ
R1040	VRJSD3D6801	MGF CHIP +-0.5% 1/16W 6.8K	
R1041	VRJSD3D2201	MGF CHIP +-0.5% 1/16W 2.2K	
R1043	VRJSD3D1500V	MGF CHIP +-0.5% 1/16W 150	
R1044	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R1045	ERJ6GEYJ331V	MGF CHIP 1/10W 330	
R1046		MGF CHIP 1/16W 2.2K	
R1047	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
	DIG CODITOIT	MOI CMII 1/10W 100	
	EB.T3GEV.T223X	MCF CHIP 1/16W 22K	
R1056	ERJ3GEYJ223X	MGF CHIP 1/16W 22K	
R1056	( C,D,E,F )		
	( C,D,E,F ) ERJ3GEY0R00X	MGF CHIP 1/16W 22K MGF CHIP 1/16W 0	•
R1056 R1057	( C,D,E,F ) ERJ3GEYOROOX ( A,B )	MGF CHIP 1/16W 0	
R1056	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X		•
R1056 R1057 R1058	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F )	MGF CHIP 1/16W 0	
R1056 R1057	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X	MGF CHIP 1/16W 0	
R1056 R1057 R1058 R1059	(C,D,E,F)  ERJ3GEYOROOX (A,B)  ERJ3GEYOROOX (C,D,E,F)  ERJ3GEYJ681X (C,D,E,F)	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680	
R1056 R1057 R1058	(C,D,E,F)  ERJ3GEYOROOX (A,B)  ERJ3GEYOROOX (C,D,E,F)  ERJ3GEYJ681X (C,D,E,F)	MGF CHIP 1/16W 0	
R1056 R1057 R1058 R1059	(C,D,E,F)  ERJ3GEYOROOX (A,B)  ERJ3GEYOROOX (C,D,E,F)  ERJ3GEYJ681X (C,D,E,F)  ERJ3GEYJ821X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680	
R1056 R1057 R1058 R1059 R1060	(C,D,E,F)  ERJ3GEYOROOX (A,B)  ERJ3GEYOROOX (C,D,E,F)  ERJ3GEYJ681X (C,D,E,F)  ERJ3GEYJ821X  ERJ3GEYJ821X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820	
R1056 R1057 R1058 R1059 R1060 R1061	(C,D,E,F)  ERJ3GEYOROOX (A,B)  ERJ3GEYOROOX (C,D,E,F)  ERJ3GEYJ681X (C,D,E,F)  ERJ3GEYJ821X  ERJ3GEYJ222X  ERJ3GEYJ223X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K	
R1056 R1057 R1058 R1059 R1060 R1061 R1062	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ103X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ103X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ103X ERJ3GEYJ222X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ103X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069	( C,D,E,F ) ERJ3GEYOROOX ( A,B ) ERJ3GEYOROOX ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D33R0	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D33R0 ERJ3GEY0R00X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1070	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D33R0 ERJ3GEY0R00X ( B,F )	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D33R0 ERJ3GEY0R00X ( B,F ) ERJ3GEYJR56V	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1070 R1101	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D33R0 ERJ3GEY0R00X ( B,F ) ERJ8GEYJR56V ( A,C,D,E )	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0.56	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1070	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D33R0 ERJ3GEY0R00X ( B,F ) ERJ8GEYJR56V ( A,C,D,E ) ERJ8GEYJR56V	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1065 R1067 R1068 R1069 R1070 R1101	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ103X URJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D3F0 ERJ3GEY0R00X ( B,F ) ERJ8GEYJR56V ( A,C,D,E ) ERJ8GEYJR56V	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/8W 0.56	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1070 R1101	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D33R0 ERJ3GEYD222X ( B,F ) ERJ8GEYJR56V ( A,C,D,E ) ERJ8GEYJR56V ( A,C,D,E ) ERJ3GEYJ223X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0.56	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1065 R1067 R1068 R1069 R1070 R1101	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ103X URJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D3F0 ERJ3GEY0R00X ( B,F ) ERJ8GEYJR56V ( A,C,D,E ) ERJ8GEYJR56V	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/8W 0.56	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1065 R1067 R1068 R1069 R1070 R1101	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D31801 VRJSD3D350 ERJ3GEYJ222X ( B,F ) ERJ8GEYJR56V ( A,C,D,E ) ERJ3GEYJ223X ( A,C,D,E )	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/8W 0.56	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1069 R1070 R1101 R1102	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D31801 VRJSD3D350 ERJ3GEYJ222X ( B,F ) ERJ8GEYJR56V ( A,C,D,E ) ERJ3GEYJ223X ( A,C,D,E )	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0.56  MGF CHIP 1/8W 0.56  MGF CHIP 1/8W 0.56	
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R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1101 R1101 R1102 R1103 R1104	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D33R0 ERJ3GEY0R00X ( B,F ) ERJ8GEYJF56V ( A,C,D,E ) ERJ8GEYJR56V ( A,C,D,E ) ERJ3GEYJ223X ( A,C,D,E ) ERJ3GEYJ222X ( A,C,D,E ) ERJ3GEYJ222X ( A,C,D,E ) ERJ3GEYJ681X ( A,C,D,E ) ERJ3GEYJ681X ( A,C,D,E ) ERJ3GEYJ681X ( A,C,D,E ) ERJ3GEYJ681X ( A,C,D,E ) ERJ3GEYJ681X	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0.56  MGF CHIP 1/16W 0.56  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 68	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1101 R1102 R1101 R1102 R1103 R1104 R1105	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D3R00 ERJ3GEYJ722X ( B,C,D,E ) ERJ8GEYJR56V ( A,C,D,E ) ERJ3GEYJ223X ( A,C,D,E ) ERJ3GEYJ223X ( A,C,D,E ) ERJ3GEYJ222X ( A,C,D,E ) ERJ3GEYJ22X ( A,C,D,E ) ERJ3GEYJ681X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E )	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0.56  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 680  MGF CHIP 1/16W 680  MGF CHIP 1/16W 5.6K	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1101 R1101 R1102 R1103 R1104	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ223X ( A,C,D,E ) ERJ3GEYJ22X ( A,C,D,E ) ERJ3GEYJ681X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E )	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0.56  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 680	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1101 R1102 R1101 R1102 R1103 R1104 R1105 R1106	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ680V ( A,C,D,E ) ERJ3GEYJ681X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E )	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 1.8K  MGF CHIP 1/16W 2.2K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0.56  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 680  MGF CHIP 1/16W 5.6K  MGF CHIP 1/16W 5.6K	
R1056 R1057 R1058 R1059 R1060 R1061 R1062 R1064 R1065 R1067 R1068 R1069 R1101 R1102 R1101 R1102 R1103 R1104 R1105	( C,D,E,F ) ERJ3GEY0R00X ( A,B ) ERJ3GEY0R00X ( C,D,E,F ) ERJ3GEYJ681X ( C,D,E,F ) ERJ3GEYJ821X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ222X VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 VRJSD3D1801 ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ756V ( A,C,D,E ) ERJ3GEYJ680V ( A,C,D,E ) ERJ3GEYJ681X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E ) ERJ3GEYJ562X ( A,C,D,E )	MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 680  MGF CHIP 1/16W 820  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 1.8K  MGF CHIP +-0.5% 1/16W 33  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0.56  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 680  MGF CHIP 1/16W 680  MGF CHIP 1/16W 5.6K	

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Ref. No.	Part No.	Part Name & Description	Remark
	( A,C,D,E )		
R1110	1	MGF CHIP 1/16W 22K	
	( A,C,D,E )		
R1111	+	MGF CHIP 1/16W 22K	
	( A,C,D,E )		
R1112	1	MGF CHIP 1/16W 22K	
KIIIZ	( A,C,D,E )	MGF CHIF 1/10W 22K	1
R1113		MGF CHIP 1/16W 47K	
RIII3	+	MGF CHIP 1/16W 4/K	
D1114	( A,C,D,E )	MOD OUT D 1/16W 47W	-
R1114	1.	MGF CHIP 1/16W 47K	
-1.501	( A,C,D,E )	// 5 / 00	
R1601	1	MGF CHIP 1/16W 100	
	( C,D,E,F )		
R1602	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
	( C,D,E,F )		
R1603	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
	( C,D,E,F )		
R1604	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
	( A )		
R1605	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
	( A )		
R1606	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
	( A )		
R2001	+	MGF CHIP 1/16W 1.5K	
R2003		MGF CHIP 1/16W 100	1
R2004		MGF CHIP 1/16W 3.3K	1
R2008		MGF CHIP 1/8W 0.33	1
R2010	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	+
	<del> </del>		
R2011	+	MGF CHIP 1/16W 22K	
R2012	†	MGF CHIP 1/16W 180K	
R2013		MGF CHIP 1/16W 3.3K	
R2014		MGF CHIP 1/16W 680K	
R2015	+	MGF CHIP 1/16W 6.8K	
R2016	ERJ3GEYJ684V	MGF CHIP 1/16W 680K	
R2021	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R2022	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R2023	ERJ8GEYJR33V	MGF CHIP 1/8W 0.33	
R2025	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
R2026	ERJ3GEYJ820V	MGF CHIP 1/16W 82	
R2027	ERJ3GEYJ471X	MGF CHIP 1/16W 470	
R2028	ERJ3GEYJ391V	MGF CHIP 1/16W 390	
R2029	ERJ3GEYJ391V	MGF CHIP 1/16W 390	
R2030	ERJ3GEYJ471X	MGF CHIP 1/16W 470	
R2031		MGF CHIP 1/16W 100	
			<del> </del>
R2032		MGF CHIP 1/16W 10K	
R3002		MGF CHIP 1/16W 150K	
R3003	+	MGF CHIP 1/16W 1.5K	
R3004		MGF CHIP 1/16W 27	
R3005		MGF CHIP 1/16W 220	
R3006		MGF CHIP 1/16W 1K	ļ
R3008		MGF CHIP 1/16W 1.2K	ļ
R3009	ERJ3GEYJ392X	MGF CHIP 1/16W 3.9K	
R3010	ERJ3GEYJ122V	MGF CHIP 1/16W 1.2K	
R3011	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R3015	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R3016	ERJ3GEYJ821X	MGF CHIP 1/16W 820	Ī
R3017		MGF CHIP 1/16W 100	
R3018		MGF CHIP 1/16W 470	1
R3022		MGF CHIP 1/16W 1K	1
R3023		MGF CHIP 1/16W 1K	1
R3024	ERJ6GEYJ560V	MGF CHIP 1/10W 1K	†
R3024		MGF CHIP 1/16W 56 MGF CHIP 1/16W 100	<del> </del>
13025	1.	INCLUSION TOU	+
	( A,C,D,E,F		
R3026	ERJ3GEYJ101X	MGF CHIP 1/16W 100	1
23026	†	PAGE CHIF I/IOW IOU	1
	( A,C,D,E,F		
P3031	-	MCE CUID 1/16W 920	+
R3031		MGF CHIP 1/16W 820	<del>                                     </del>
R3032		MGF CHIP 1/16W 1K	+
R3033	<b>†</b>	MGF CHIP 1/16W 1.8K	1
R3034	+	MGF CHIP 1/16W 820	1
R3035	<del>†</del>	MGF CHIP 1/16W 1.8K	1
R3036	ERJ3GEYJ471X	MGF CHIP 1/16W 470	

Ref. No.	Part No.	Part Name & Description	Remarl s
R3037	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R3038	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R3039	ERJ3GEYJ101X	MGF CHIP 1/16W 100	
R3040	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R3041	ERJ3GEYJ681X	MGF CHIP 1/16W 680	
R3044		MGF CHIP 1/16W 680	
R3045		MGF CHIP 1/16W 1K	
R3048		MGF CHIP 1/16W 680	
	+	· .	
R3050	+	MGF CHIP 1/16W 820	
R3129		MGF CHIP 1/16W 390	_
R3130	+	MGF CHIP 1/16W 4.7K	
R3140	ERJ3GEYJ122V	MGF CHIP 1/16W 1.2K	
R3150	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R3151	ERJ3GEYJ183X	MGF CHIP 1/16W 18K	
R3152	ERJ3GEYJ821X	MGF CHIP 1/16W 820	
R3153	ERJ3GEYJ272X	MGF CHIP 1/16W 2.7K	
R3154	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R3167	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R3169		MGF CHIP 1/16W 1.5K	
R3174		MGF CHIP 1/16W 0	•
R3174	+	MGF CHIP 1/16W 0	+
		· .	
R3180	+	MGF CHIP 1/16W 100	+
R3181	+	MGF CHIP 1/16W 47K	-
R3182	ERJ3GEYJ473X	MGF CHIP 1/16W 47K	
R3183	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R3184	ERJ3GEYJ821X	MGF CHIP 1/16W 820	
R3185	ERJ3GEYJ182V	MGF CHIP 1/16W 1.8K	
R3186	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R3187	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
	( A,C,D,E,F		
R3188	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
	( A,C,D,E,F		
R3190	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R4001	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R4002	ERJ3GEYJ104X	MGF CHIP 1/16W 100K	
R4004		MGF CHIP 1/16W 12K	
R4005	ERJ3GEYJ333X	MGF CHIP 1/16W 33K	
R4006		MGF CHIP 1/16W 1M	
	+		
R4007	+	MGF CHIP 1/16W 1.5K	
R4008		MGF CHIP 1/16W 22K	
R4009		MGF CHIP 1/16W 22K	
R4010	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R4011	ERJ3GEYJ561X	MGF CHIP 1/16W 560	
R4012	ERJ3GEYJ163V	MGF CHIP 1/16W 16K	
R4013	ERJ3GEYJ223X	MGF CHIP 1/16W 22K	
R4014	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	T
R4015	+		
	ERJ3GEYJ332X	MGF CHIP 1/16W 3.3K	
R4016	ERJ3GEYJ332X ERJ3GEYJ183X	MGF CHIP 1/16W 3.3K MGF CHIP 1/16W 18K	
R4016 R4017	ERJ3GEYJ183X	MGF CHIP 1/16W 18K	
R4017	ERJ3GEYJ183X ERJ3GEYJ100V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10	
R4017 R4018	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K	
R4017 R4018 R4019	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K	
R4017 R4018 R4019 R4020	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ334V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 330K	
R4017 R4018 R4019 R4020	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K	
R4017 R4018 R4019 R4020 R4021	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ334V ERJ3GEYJ122V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 330K	
R4017 R4018 R4019 R4020 R4021 R4024	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ334V ERJ3GEYJ122V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 330K MGF CHIP 1/16W 1.2K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ334V ERJ3GEYJ122V ERJ3GEYJ103X	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 330K MGF CHIP 1/16W 1.2K MGF CHIP 1/16W 10K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ334V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ1682V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 330K MGF CHIP 1/16W 1.2K MGF CHIP 1/16W 10K MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ334V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ1682V ERJ3GEYJ1682V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 330K MGF CHIP 1/16W 1.2K MGF CHIP 1/16W 10K MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 15K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ334V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ1682V ERJ3GEYJ153V ERJ3GEYJ153V	MGF CHIP 1/16W 18K MGF CHIP 1/16W 10 MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 330K MGF CHIP 1/16W 1.2K MGF CHIP 1/16W 10K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 6.8K MGF CHIP 1/16W 15K MGF CHIP 1/16W 4.7K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ334V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ1682V ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ680V	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 22K	
R4017 R4018 R4019 R4020 R4021 R4024 R4024 R4025 R4027 R4029 R4030 R4031 R4032	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ1682V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ480V ERJ3GEYJ223X ERJ3GEYJ222X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4027 R4029 R4030 R4031 R4032 R4033	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ1682V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 25K  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ1682V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 68  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034 R4035	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 68  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 100	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034 R4035 R4037	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 68  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 100  MGF CHIP 1/16W 560	
R4016 R4017 R4018 R4019 R4020 R4021 R4025 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034 R4035 R4037 R4046	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 68  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 100	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034 R4035 R4037	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 68  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 100  MGF CHIP 1/16W 560	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034 R4035 R4037 R4046	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 68  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 3.2K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034 R4035 R4037 R4046	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ101X ERJ3GEYJ101X ERJ3GEYJ102X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 62  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 3.2K  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP 1/16W  MGF CHIP	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034 R4035 R4037 R4046 R4060 R4061	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ101X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 62  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 100  MGF CHIP 1/16W 560  MGF CHIP 1/16W 1K  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 2.2K	
R4017 R4018 R4019 R4020 R4021 R4024 R4025 R4027 R4029 R4030 R4031 R4032 R4033 R4034 R4035 R4037 R4046 R4060 R4061 R4062	ERJ3GEYJ183X ERJ3GEYJ100V ERJ3GEYJ103X ERJ3GEYJ682V ERJ3GEYJ122V ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ103X ERJ3GEYJ153V ERJ3GEYJ153V ERJ3GEYJ472X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ222X ERJ3GEYJ223X ERJ3GEYJ222X ERJ3GEYJ101X ERJ3GEYJ101X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ102X	MGF CHIP 1/16W 18K  MGF CHIP 1/16W 10  MGF CHIP 1/16W 10K  MGF CHIP 1/16W 6.8K  MGF CHIP 1/16W 330K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 1.2K  MGF CHIP 1/16W 1.5K  MGF CHIP 1/16W 15K  MGF CHIP 1/16W 4.7K  MGF CHIP 1/16W 68  MGF CHIP 1/16W 22K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 100  MGF CHIP 1/16W 100  MGF CHIP 1/16W 1K  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 0  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 0  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 0  MGF CHIP 1/16W 2.2K  MGF CHIP 1/16W 0	

REG010 ERJ3GEYJ472X MGF CHIP 1/16W 4.7K REG011 ERJ3GEYJ473X MGF CHIP 1/16W 10K  (E) REG012 ERJ3GEYJ103X MGF CHIP 1/16W 10K  (E) REG013 ERJ3GEYJ103X MGF CHIP 1/16W 10K  (E) REG014 ERJ3GEYJ103X MGF CHIP 1/16W 17K REG015 ERJ3GEYJ102X MGF CHIP 1/16W 14K  (C,D,E,F) REG017 ERJ3GEYJ102X MGF CHIP 1/16W 14K  (C,D,E,F) REG017 ERJ3GEYJ102X MGF CHIP 1/16W 14K  (C,D,E,F) REG019 ERJ3GEYJ102X MGF CHIP 1/16W 14K  (C,D,E,F) REG019 ERJ3GEYJ102X MGF CHIP 1/16W 14K  (C,D,E,F) REG010 ERJ3GEYJ102X MGF CHIP 1/16W 14K  (C,D,E,F) REG020 ERJ3GEYJ102X MGF CHIP 1/16W 14K  REG021 ERJ3GEYJ102X MGF CHIP 1/16W 14K  REG022 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG024 ERJ3GEYJ104X MGF CHIP 1/16W 10K  REG025 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG026 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG027 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG028 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG029 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG029 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG029 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG021 ERJ3GEYJ102X MGF CHIP 1/16W 10K  REG023 ERJ3GEYJ102X MGF CHIP 1/16W 1.5 K  REG024 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG025 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG026 ERJ3GEYJ33X MGF CHIP 1/16W 1.5 K  REG027 ERJ3GEYJ33X MGF CHIP 1/16W 1.5 K  REG028 ERJ3GEYJ33X MGF CHIP 1/16W 1.5 K  REG030 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG031 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG032 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG033 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG034 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG035 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG036 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG037 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG038 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG039 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG030 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG031 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG032 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG034 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG035 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG036 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG036 ERJ3GEYJ103X MGF CHIP 1/16W 1.5 K  REG037 ERJ3GEYJ103X MGF CHIP 1/16W 1.7 K  REG038 ERJ3GEYJ103X MGF CHIP 1/16W 1.7 K  REG039				
R6008   ERJ3GEYJ103X   MGF CHIP   1/16W 10K   R6009   ERJ3GEYJ472X   MGF CHIP   1/16W 4.7K   R6010   ERJ3GEYJ473X   MGF CHIP   1/16W 4.7K   R6011   ERJ3GEYJ473X   MGF CHIP   1/16W 4.7K   R6011   ERJ3GEYJ103X   MGF CHIP   1/16W 10K   R6012   ERJ3GEYJ103X   MGF CHIP   1/16W 10K   R6012   ERJ3GEYJ103X   MGF CHIP   1/16W 10K   R6013   ERJ3GEYJ103X   MGF CHIP   1/16W 10K   R6015   ERJ3GEYJ103X   MGF CHIP   1/16W 39K   R6016   ERJ3GEYJ103X   MGF CHIP   1/16W 39K   R6016   ERJ3GEYJ103X   MGF CHIP   1/16W 14K   R6017   ERJ3GEYJ103X   MGF CHIP   1/16W 14K   R6017   ERJ3GEYJ103X   MGF CHIP   1/16W 14K   R6017   ERJ3GEYJ103X   MGF CHIP   1/16W 14K   R6018   ERJ3GEYJ103X   MGF CHIP   1/16W 14K   R6017   ERJ3GEYJ103X   MGF CHIP   1/16W 14K   R6018   ERJ3GEYJ102X   MGF CHIP   1/16W 14K   R6020   ERJ3GEYJ102X   MGF CHIP   1/16W 14K   R6021   ERJ3GEYJ102X   MGF CHIP   1/16W 14K   R6021   ERJ3GEYJ104X   MGF CHIP   1/16W 14K   R6022   ERJ3GEYJ104X   MGF CHIP   1/16W 14K   R6022   ERJ3GEYJ102X   MGF CHIP   1/16W 14K   R6025   ERJ3GEYJ102X   MGF CHIP   1/16W 14K   R6026   ERJ3GEYJ102X   MGF CHIP   1/16W 14K   R6026   ERJ3GEYJ102X   MGF CHIP   1/16W 14K   R6028   ERJ3GEYJ102X   MGF CHIP   1/16W 1.K   R6030   ERJ3GEYJ102X   MGF CHIP   1/16W 2.7K   R6031   ERJ3GEYJ102X   MGF CHIP   1/16W 2.7K   R6031   ERJ3GEYJ102X   MGF CHIP   1/16W 2.7K   R6031   ERJ3GEYJ103X   MGF CHIP   1/16W 3.3K   R6039   ERJ3GEYJ103X   MGF CHIP   1/16W 1.K   R6030   ERJ3GEYJ103X   MGF CHIP   1/16W 1.K   R6030   ERJ3GEYJ103X   MGF CHIP   1/16W 1.K   R6030   ERJ3GEYJ103X   MGF CHIP   1/16W 1.K   R6040   ERJ3GEYJ103X   MGF CHIP   1/16W 1.K   R6041   ERJ3GEYJ103X   MGF CHIP   1/16W 1.K   R6042   ERJ3GEYJ103X   MGF CHIP   1/16W 1.K   R6041   ERJ3GEYJ103X   MGF CHIP   1/16W 1.K   R6041   ERJ3	Ref.	Part No.	Part Name & Description	Remark
NEONOR ENJ3GEYJ102X MGF CHIP 1/16W 4.7K	No.			s
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R6012				
(E)  R6013 ERJ3GEYJ103X MGF CHIP 1/16W 10K  (E)  R6014 ERJ3GEYJ103X MGF CHIP 1/16W 47K  R6015 ERJ3GEYJ103X MGF CHIP 1/16W 1K  (C,D,E,F)  R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6019 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6019 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6023 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6025 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6026 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6027 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6028 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6023 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6030 ERJ3GEYJ32X MGF CHIP 1/16W 2.7K  R6031 ERJ3GEYJ103X MGF CHIP 1/16W 3.3K  R6030 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6032 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6033 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6034 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6039 ERJ3GEYJ273X MGF CHIP 1/16W 1.5K  R6030 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6051 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6062 ERJ3GEYJ103X MGF CH	R6011	ERJ3GEYJ473X	MGF CHIP 1/16W 47K	
(E)  R6013 ERJ3GEYJ103X MGF CHIP 1/16W 10K  (E)  R6014 ERJ3GEYJ103X MGF CHIP 1/16W 47K  R6015 ERJ3GEYJ103X MGF CHIP 1/16W 1K  (C,D,E,F)  R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6019 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6019 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6023 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6025 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6026 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6027 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6028 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6023 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6030 ERJ3GEYJ32X MGF CHIP 1/16W 2.7K  R6031 ERJ3GEYJ103X MGF CHIP 1/16W 3.3K  R6030 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6032 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6033 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6034 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6039 ERJ3GEYJ273X MGF CHIP 1/16W 1.5K  R6030 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6051 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6062 ERJ3GEYJ103X MGF CH	R6012	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R6013 ERJ3GEYJ103X MGF CHIP 1/16W 10K  (E)  R6014 ERJ3GEYJ473X MGF CHIP 1/16W 39K  R6015 ERJ3GEYJ303V MGF CHIP 1/16W 1K  (C,D,E,F)  R6017 ERJ3GEYJ473X MGF CHIP 1/16W 1K  (C,D,E,F)  R6017 ERJ3GEYJ473X MGF CHIP 1/16W 1K  (C,D,E,F)  R6019 ERJ3GEYJ473X MGF CHIP 1/16W 47K  (A,B)  ERJ3GEYJ473X MGF CHIP 1/16W 47K  (C,D,E,F)  R6020 ERJ3GEYJ473X MGF CHIP 1/16W 47K  (C,D,E,F)  R6021 ERJ3GEYJ473X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 100K  R6024 ERJ3GEYJ104X MGF CHIP 1/16W 100K  R6025 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6026 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6027 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6028 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ302X MGF CHIP 1/16W 1X  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6023 ERJ3GEYJ302X MGF CHIP 1/16W 1X  R6024 ERJ3GEYJ302X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ302X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ303X MGF CHIP 1/16W 1X  R6031 ERJ3GEYJ152V MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ0102X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6031 ERJ3GEYJ152V MGF CHIP 1/16W 1X  R6033 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6030 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6040 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6041 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6043 ERJ3GEYJ124V MGF CHIP 1/16W 1X  R6044 ERJ3GEYJ124V MGF CHIP 1/16W 1X  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1X  R6050 ERJ3GEYJ103X MGF CHIP 1/16			·	
R6014   ERJ3GEYJ473X   MGF CHIP 1/16W 47K   R6015 ERJ3GEYJ302X   MGF CHIP 1/16W 1K   C.C.D.E.F.   R6017 ERJ3GEYJ102X   MGF CHIP 1/16W 1K   C.C.D.E.F.   R6017 ERJ3GEYJ102X   MGF CHIP 1/16W 1K   C.C.D.E.F.   R6019   ERJ3GEYJ473X   MGF CHIP 1/16W 47K   C.C.D.E.F.   R6019   ERJ3GEYJ473X   MGF CHIP 1/16W 47K   C.A.B.		-		
R6014 ERJ3GEYJ473X MGF CHIP 1/16W 47K R6015 ERJ3GEYJ02X MGF CHIP 1/16W 1K  (C,D,E,F) R6017 ERJ3GEYJ02X MGF CHIP 1/16W 1K  (C,D,E,F) R6019 ERJ3GEYJ473X MGF CHIP 1/16W 47K  (C,D,E,F) R6019 ERJ3GEYJ473X MGF CHIP 1/16W 47K  (C,D,E,F) R6020 ERJ3GEYJ102X MGF CHIP 1/16W 47K  (C,D,E,F) R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6025 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6026 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6027 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6028 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6029 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6032 ERJ3GEYJ332X MGF CHIP 1/16W 3.3K  R6032 ERJ3GEYJ332X MGF CHIP 1/16W 3.3K  R6030 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ00X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ00X MGF CHIP 1/16W 1.5K  R6032 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6033 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6034 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6039 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6050 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6070 ERJ3GEYJ103X MG	R6013	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R6015 ERJ3GEYJ393V MGF CHIP 1/16W 39K  R6016 ERJ3GEYJ102X MGF CHIP 1/16W 1K  ( C, D, E, F )  R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K  ( C, D, E, F )  R6019 ERJ3GEYJ102X MGF CHIP 1/16W 47K  ( C, D, E, F )  ERJ3GEYJ474V MGF CHIP 1/16W 47K  ( C, D, E, F )  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6023 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6025 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6026 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6027 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6028 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6020 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6020 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6021 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6021 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6030 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6033 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6034 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6034 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6039 ERJ3GEYJ273X MGF CHIP 1/16W 10K  R6030 ERJ3GEYJ273X MGF CHIP 1/16W 10K  R6030 ERJ3GEYJ273X MGF CHIP 1/16W 10K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6050 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6060 ERJ3GEYJ103		(E)		
R6015 ERJ3GEYJ393V MGF CHIP 1/16W 39K  R6016 ERJ3GEYJ102X MGF CHIP 1/16W 1K  ( C, D, E, F )  R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K  ( C, D, E, F )  R6019 ERJ3GEYJ102X MGF CHIP 1/16W 47K  ( C, D, E, F )  ERJ3GEYJ474V MGF CHIP 1/16W 47K  ( C, D, E, F )  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6023 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6025 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6026 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6027 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6028 ERJ3GEYJ102X MGF CHIP 1/16W 1X  R6029 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6020 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6020 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6021 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6021 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6030 ERJ3GEYJ272X MGF CHIP 1/16W 2.7K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6033 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6034 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6034 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6039 ERJ3GEYJ273X MGF CHIP 1/16W 10K  R6030 ERJ3GEYJ273X MGF CHIP 1/16W 10K  R6030 ERJ3GEYJ273X MGF CHIP 1/16W 10K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6050 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 1K  R6060 ERJ3GEYJ103	R6014	ER.T3GEV.T473X	MGF CHIP 1/16W 47K	
R6016 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K  (C,D,E,F)  R6019 ERJ3GEYJ474V MGF CHIP 1/16W 47K  (L,B)  ERJ3GEYJ474V MGF CHIP 1/16W 47K  (C,D,E,F)  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6025 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6026 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6027 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6028 ERJ3GEYJ102X MGF CHIP 1/16W 3.3K  R6029 ERJ3GEYJ332X MGF CHIP 1/16W 3.3K  R6020 ERJ3GEYJ332X MGF CHIP 1/16W 3.3K  R6030 ERJ3GEYJ332X MGF CHIP 1/16W 3.3K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 0.5K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6032 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6033 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6034 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6036 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6032 ERJ3GEYJ102X MGF CHIP 1/16W 1.5K  R6033 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6034 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6035 ERJ3GEYJ102X MGF CHIP 1/16W 10K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6050 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 10K  R6060 ERJ3GEYJ103X			·	-
CC,D,E,F   R6017   ERJ3GEYJ102X   MGF CHIP 1/16W 47K   C,D,E,F   R6019   ERJ3GEYJ473X   MGF CHIP 1/16W 47K   C,D,E,F   R6020   ERJ3GEYJ474V   MGF CHIP 1/16W 470K   C   C,D,E,F   R6020   ERJ3GEYJ102X   MGF CHIP 1/16W 1K   R6021   ERJ3GEYJ102X   MGF CHIP 1/16W 1K   R6022   ERJ6GEY0ROVV   MGF CHIP 1/16W 10NK   R6022   ERJ6GEY0ROVV   MGF CHIP 1/16W 10NK   R6022   ERJ3GEYJ104X   MGF CHIP 1/16W 10NK   R6026   ERJ3GEYJ102X   MGF CHIP 1/16W 10   MGF CHIP 1/16W 1K   R6026   ERJ3GEYJ102X   MGF CHIP 1/16W 1K   R6026   ERJ3GEYJ102X   MGF CHIP 1/16W 1K   R6027   ERJ3GEYJ302X   MGF CHIP 1/16W 1X   R6029   ERJ3GEYJ332X   MGF CHIP 1/16W 3.3K   R6029   ERJ3GEYJ332X   MGF CHIP 1/16W 3.3K   R6030   ERJ3GEYJ32X   MGF CHIP 1/16W 3.3K   R6031   ERJ3GEYJ152V   MGF CHIP 1/16W 1.5K   R6031   ERJ3GEYJ152V   MGF CHIP 1/16W 1.5K   R6031   ERJ3GEYJ152V   MGF CHIP 1/16W 1.5K   R6038   ERJ3GEYJ152V   MGF CHIP 1/16W 10K   R6039   ERJ3GEYJ123X   MGF CHIP 1/16W 10K   R6039   ERJ3GEYJ123X   MGF CHIP 1/16W 10K   R6039   ERJ3GEYJ123X   MGF CHIP 1/16W 10K   R60404   ERJ3GEYJ123X   MGF CHIP 1/16W 2K   R6041   ERJ3GEYJ123X   MGF CHIP 1/16W 16K   R6041   ERJ3GEYJ123X   MGF CHIP 1/16W 16K   R6042   ERJ3GEYJ123X   MGF CHIP 1/16W 16K   R6044   ERJ3GEYJ123X   MGF CHIP 1/16W 17K   R6045   ERJ3GEYJ123X   MGF CHIP 1/16W 17K   R6046   ERJ3GEYJ123X   MGF CHIP 1/16W 17K   R6046   ERJ3GEYJ123X   MGF CHIP 1/16W 17K   R6046   ERJ3GEYJ123X   MGF CHIP 1/16W 17K   R6047   ERJ3GEYJ123X   MGF CHIP 1/16W 17K   R6048   ERJ3GEYJ123X   MGF CHIP 1/16W 14K   R6046   ERJ3GEYJ123X   MGF CHIP 1/16W 14K   R6050   ERJ3GEYJ123X   MGF CHIP 1/16W 14K   R6050   ERJ3GEYJ102X   MGF CHIP 1/16W 14K   R6060   ERJ3GEYJ102X   MGF CHIP 1/16W 16K   R6060   ERJ3GEYJ102X   MGF CHIP 1/16W 1		ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K	R6016	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R6017 ERJ3GEYJ102X MGF CHIP 1/16W 1K		( C.D.E.F )		
( C, D, E, F )	DC017		MOT OUT 1 /16W 1W	
R6019 ERJ3GEYJ473X MGF CHIP 1/16W 470K  ( A,B )  R6020 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6021 ERJ3GEYJ102X MGF CHIP 1/16W 1K  R6022 ERJ6GEY0R00V MGF CHIP 1/16W 1K  R6023 ERJ6GEY0R00V MGF CHIP 1/16W 1C  R6024 ERJ3GEYJ102X MGF CHIP 1/16W 1C  R6025 ERJ3GEYJ102X MGF CHIP 1/16W 1C  R6026 ERJ3GEYJ102X MGF CHIP 1/16W 1C  R6027 ERJ3GEYJ102X MGF CHIP 1/16W 1C  R6028 ERJ3GEYJ102X MGF CHIP 1/16W 1C  R6029 ERJ3GEYJ32X MGF CHIP 1/16W 3.3K  R6020 ERJ3GEYJ32X MGF CHIP 1/16W 3.3K  R6021 ERJ3GEYJ32X MGF CHIP 1/16W 3.3K  R6022 ERJ3GEYJ32X MGF CHIP 1/16W 3.3K  R6030 ERJ3GEYJ272X MGF CHIP 1/16W 3.3K  R6031 ERJ3GEYJ272X MGF CHIP 1/16W 1.5K  R6031 ERJ3GEYJ272X MGF CHIP 1/16W 1.5K  R6032 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6033 ERJ3GEYJ103X MGF CHIP 1/16W 1.5K  R6034 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6039 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6041 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6044 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6045 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6047 ERJ3GEYJ473X MGF CHIP 1/16W 1C  R6048 ERJ3GEYJ473X MGF CHIP 1/16W 1C  R6049 ERJ3GEYJ473X MGF CHIP 1/16W 1C  R6040 ERJ3GEYJ472X MGF CHIP 1/16W 1C  R6041 ERJ3GEYJ472X MGF CHIP 1/16W 1C  R6042 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6043 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6046 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6047 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6048 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6049 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6040 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6050 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 1C  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 4.7K  R6060 ERJ3GEYJ103X MGF CHIP 1/16W 4.7K  R6	R6017	ERUSGEIUIUZX	MGF CHIP 1/16W IK	$\vdash$
(A,B)		( C,D,E,F )		
(A,B)	R6019	ERJ3GEYJ473X	MGF CHIP 1/16W 47K	
REJJGEYJ102X MGF CHIP 1/16W 1K  R6020 RJGEYJ102X MGF CHIP 1/16W 1K  R6021 ERJJGEYJ102X MGF CHIP 1/16W 1K  R6022 ERJGEYS000V MGF CHIP 1/16W 1K  R6022 ERJGEYS00V MGF CHIP 1/16W 1K  R6024 ERJJGEYJ104X MGF CHIP 1/16W 1K  R6025 ERJJGEYJ102X MGF CHIP 1/16W 1K  R6026 ERJJGEYJ102X MGF CHIP 1/16W 1K  R6027 ERJJGEYJ102X MGF CHIP 1/16W 1K  R6028 ERJJGEYJ102X MGF CHIP 1/16W 2.7K  R6029 ERJJGEYJ332X MGF CHIP 1/16W 3.3K  R6029 ERJJGEYJ332X MGF CHIP 1/16W 3.3K  R6029 ERJJGEYJ332X MGF CHIP 1/16W 2.7K  R6031 ERJJGEYJ132X MGF CHIP 1/16W 1.5K  R6033 ERJJGEYJ102X MGF CHIP 1/16W 1.5K  R6034 ERJJGEYJ102X MGF CHIP 1/16W 1.5K  R6036 ERJJGEYJ102X MGF CHIP 1/16W 1.5K  R6038 ERJJGEYJ102X MGF CHIP 1/16W 1.5K  R6039 ERJJGEYJ102X MGF CHIP 1/16W 1.5K  R6030 ERJJGEYJ102X MGF CHIP 1/16W 1.5K  R6030 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6040 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6040 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6041 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6042 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6043 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6044 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6045 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6046 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6047 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6048 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6049 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6040 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6050 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6050 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6050 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6050 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6050 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6050 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6050 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6060 ERJJGEYJ102X MGF CHIP 1/16W 1C  R6070 ERJJGEYJ102X M			·	
( C, D, E, F )				
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R6086 ERJ3GEYJ561X MGF CHIP 1/16W 560	R6042 R6043 R6044 R6045 R6046 R6047 R6048 R6049 R6050 R6051 R6052 R6054 R6056 R6061 R6062 R6063 R6064 R6068 R6070 R6072 R6073 R6074 R6075 R6077 R6079 R6080 R6081 R6082 R6083 R6084	ERJ3GEYJ124V ERJ3GEYJ473X ERJ3GEYJ473X ERJ3GEYJ103X ERJ3GEYJ102X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ102X ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ561X ERJ3GEYJ561X	MGF CHIP 1/16W 120K MGF CHIP 1/16W 47K MGF CHIP 1/16W 47K MGF CHIP 1/16W 10K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1.7K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1X MGF CHIP 1/16W 1X MGF CHIP 1/16W 22K MGF CHIP 1/16W 56K MGF CHIP 1/16W 56K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 680 MGF CHIP 1/16W 680 MGF CHIP 1/16W 560	
	R6042 R6043 R6044 R6045 R6046 R6047 R6048 R6049 R6055 R6051 R6052 R6054 R6056 R6058 R6058	ERJ3GEYJ124V ERJ3GEYJ473X ERJ3GEYJ473X ERJ3GEYJ103X ERJ3GEYJ102X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ102X ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ102X ERJ3GEYJ102X ERJ3GEYJ561X ERJ3GEYJ561X	MGF CHIP 1/16W 120K MGF CHIP 1/16W 47K MGF CHIP 1/16W 47K MGF CHIP 1/16W 10K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1.7K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1X MGF CHIP 1/16W 1X MGF CHIP 1/16W 22K MGF CHIP 1/16W 56K MGF CHIP 1/16W 56K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 680 MGF CHIP 1/16W 680 MGF CHIP 1/16W 560	
	R6042 R6043 R6044 R6045 R6046 R6047 R6048 R6049 R6050 R6051 R6052 R6054 R6056 R6061 R6062 R6063 R6064 R6068 R6070 R6072 R6077 R6079 R6079 R6080 R6081 R6082 R6083 R6084 R6085	ERJ3GEYJ124V ERJ3GEYJ473X ERJ3GEYJ473X ERJ3GEYJ103X ERJ3GEYJ102X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ102X ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ563V ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ223X ERJ3GEYJ473X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ472X ERJ3GEYJ561X ERJ3GEYJ561X ERJ3GEYJ561X ERJ3GEYJ561X	MGF CHIP 1/16W 120K MGF CHIP 1/16W 47K MGF CHIP 1/16W 47K MGF CHIP 1/16W 10K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1.7K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1K MGF CHIP 1/16W 1X MGF CHIP 1/16W 1X MGF CHIP 1/16W 3.8K MGF CHIP 1/16W 56K MGF CHIP 1/16W 68K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1.7K MGF CHIP 1/16W 1.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 4.7K MGF CHIP 1/16W 1.7K MGF CHIP 1/16W 1.7K MGF CHIP 1/16W 680 MGF CHIP 1/16W 560 MGF CHIP 1/16W 560 MGF CHIP 1/16W 560 MGF CHIP 1/16W 560	

/ VM-D100 /	/ PV-L550 / PV-L600	/ PV-L650 / VM-L450	
Ref. No.	Part No.	Part Name & Description	Remark s
R6087	ERJ3GEYJ561X	MGF CHIP 1/16W 560	
R6088	ERJ3GEYJ561X	MGF CHIP 1/16W 560	
R6089	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6090	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6091	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6092	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6093	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6094	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6095	ERJ3GEYJ563V	MGF CHIP 1/16W 56K	
R6096	ERJ3GEYJ104X	MGF CHIP 1/16W 100K	
R6099	ERJ3GEYJ473X	MGF CHIP 1/16W 47K	
R6100	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
	(E)		
R6101	ERJ3GEYJ104X	MGF CHIP 1/16W 100K	
	( A,B,C,D,F		
R6102	VRJSD3D1802	MGF CHIP +-0.5% 1/16W 18K	
R6103		MGF CHIP 1/16W 2.7K	
R6104	VRJSD3D1002	MGF CHIP +-0.5% 1/16W 10K	
R6108	ERJ3GEYJ564V	MGF CHIP 1/16W 560K	
R6110	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6111	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6112	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6113	ERJ3GEYJ272X	MGF CHIP 1/16W 2.7K	
R6114	ERJ3GEYJ154V	MGF CHIP 1/16W 150K	
R6115	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R6116	ERJ3GEYJ393V	MGF CHIP 1/16W 39K	
R6119	ERJ8GEYJ101V	MGF CHIP 1/8W 100	
R6120	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6129	ERJ3GEYJ473X	MGF CHIP 1/16W 47K	
R6131	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R6132	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R6133	ERJ3GEYJ223X	MGF CHIP 1/16W 22K	
R6135	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•
R6143	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R6144	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R6145	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6146	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R6147	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R6148	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6149	ERJ3GEYJ472X	MGF CHIP 1/16W 4.7K	
R6152	ERJ3GEYJ473X	MGF CHIP 1/16W 47K	
R6162	ERJ3GEYJ102X	MGF CHIP 1/16W 1K	
R6191	ERJ3GEYJ222X	MGF CHIP 1/16W 2.2K	
R6201	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R6202	ERJ3GEYJ103X	MGF CHIP 1/16W 10K	
R6209	ERJ3GEYJ225V	MGF CHIP 1/16W 2.2M	
R6210	ERJ3GEYJ561X	MGF CHIP 1/16W 560	
R6215	ERJ3GEYJ132V	MGF CHIP 1/16W 1.3K	
R6217	ERJ3GEYJ392V	MGF CHIP 1/16W 3.9K	
R6226	ERJ3GEY0R00X	MGF CHIP 1/16W 0	•

Ref. No.	Part No.	Part Name & Description	Remark s
C301	ECUV1H330JCV	C CHIP +-5% 50V 33P	
C302	ECUV1H560JCV	C CHIP +-5% 50V 56P	
C305	ECUV1H470JCV	C CHIP +-5% 50V 47P	
C306	ECST0JY106	TANTALUM CHIP 6.3V 10	
C307	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C309	ECST0JY106	TANTALUM CHIP 6.3V 10	
C310	ECST1CY105	TANTALUM CHIP 16V 1	
C311	ECST1CY105	TANTALUM CHIP 16V 1	
C312	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C314	ECST0JY106	TANTALUM CHIP 6.3V 10	
C315	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C316	ECST0JY106	TANTALUM CHIP 6.3V 10	
C317	ECST0JY106	TANTALUM CHIP 6.3V 10	
C318	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C319	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C320	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C321	ECST0JX226	TANTALUM CHIP 6.3V 22	
C323	ECST0JY106	TANTALUM CHIP 6.3V 10	
C326	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	

Ref.	Part No.	Part Name & Description	Remark
No.			s
C327	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C335	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C337	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C338	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C339	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C340	ECUE1H103KBV	C CHIP 50V 0.01	
C341	ECUV1H102KBV	C CHIP 50V 1000P	
C342	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C345	ECUV1H471KBV	C CHIP 50V 470P	
C346	ECUV1H471KBV	C CHIP 50V 470P	
C357	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C359	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C360	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C361	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C362	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C363	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C604	ECUV1H150JCV	C CHIP +-5% 50V 15P	
C605	ECST0JX226	TANTALUM CHIP 6.3V 22	
C606	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C607	ECUV1H150JCV	C CHIP +-5% 50V 15P	
C610	ECRJA010A11B	TRIMMER CHIP 100V 10P	
C611	ECUV1H180JCV	C CHIP +-5% 50V 18P	
C613	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C614	ECUV1C474KBM	C CHIP 16V 0.47	
C615	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C616	ECUV1C104KBV	C CHIP 16V 0.1	
C617	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C618	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C623	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10	
C633	ECST1CY225	TANTALUM CHIP 16V 2.2	
C634	ECST1CY225	TANTALUM CHIP 16V 2.2	
C636	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C638	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C639	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C640	ECUVICIOSZEN ECUEICIO4ZEV		
	<del> </del>	C CHIP +80%-20% 16V 0.1 C CHIP +80%-20% 16V 0.1	
C641	ECUE1C104ZFV		
C642 C643	ECST0JY106	TANTALUM CHIP 6.3V 10	
	ECST0JY106	TANTALUM CHIP 6.3V 10	
C644	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C645	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C646	ECST0JX226	TANTALUM CHIP 6.3V 22	
C647	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C651	ECUV1H102KBV	C CHIP 50V 1000P	
C663	1	C CHIP +-0.5P 50V 10P	
C701	ECUE1H103KBV	C CHIP 50V 0.01	
C702	ECUE1H103KBV	CCHIP 50V 0.01	
C703	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C704	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C706	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C707	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C708	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47	
C709	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C1002	ECUV1E223KBV	C CHIP 25V 0.022	
C1003	ECUV1E223KBV	C CHIP 25V 0.022	
C1004	ECST1AY475N	TANTALUM CHIP 10V 4.7	
C1005	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C1006	VCUSTBC334KB	C CHIP 16V 0.33	
C1007	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C1008	ECUV1H331JCV	C CHIP +-5% 50V 330P	
C1009	ECUV1A105KBN	C CHIP 10V 1	
C1010	ECUV1E223KBV	C CHIP 25V 0.022	
C1011	ECUV1H472KBV	C CHIP 50V 4700P	
C1012	ECUV1H472KBV	C CHIP 50V 4700P	
C1012	ECUV1H221KBV	C CHIP 50V 220P	
C1014	ECUV1H221KBV	C CHIP 50V 220P	
C1016	ECUV1H221KBV	C CHIP 50V 220P	
C1017	ECUV1H221KBV	C CHIP 50V 220P	
C1018	ECUE1H103KBV	C CHIP 50V 0.01	
C1019	ECUE1H103KBV	C CHIP 50V 0.01	
C1020	VCUSQBC105KB	C CHIP 16V 1	
C1021	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47	
C1022	VCUSQFC475MB	C CHIP +-20% 16V 4.7	
C1023	VCUSQAA335KB	C CHIP 10V 3.3	

Ref. No.	Part No.	Part Name & Description	Remark
C1025	ECUV1H471KBV	C CHIP 50V 470P	5
C1026	VCUSQAC105KB	C CHIP 16V 1	
C1027	ECEV0GA470S	ELECTROLYTIC CHIP 4V 47	
C1028	ECUV1H221KBV	C CHIP 50V 220P	
C1029	VCUSQAC105KB	C CHIP 16V 1	
C1030	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C1031	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10	
C1032 C1033	VCUSQAC105KB ECUV1C105ZFN	C CHIP 16V 1 C CHIP +80%-20% 16V 1	
C1033	ECUV1C105ZFN ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C1035	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C1036	ECUV1H222KBV	C CHIP 50V 2200P	
C1037	VCUSQAC105KB	C CHIP 16V 1	
C1038	ECEV1CA220S	ELECTROLYTIC CHIP 16V 22	
C1039	ECUV1H331KBV	C CHIP 50V 330P	
C1040	VCUSQAC105ZF	C CHIP +80%-20% 16V 1	
C1041	ECEV1CS100S	ELECTROLYTIC CHIP 16V 10	
C1042	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47	
C1044 C1045	ECUV1A105KBN ECUV1C105ZFN	CCHIP 10V 1 C CHIP +80%-20% 16V 1	
C1045 C1046	VCUSQAC105KB	C CHIP +80%-20% 18V 1	
C1047	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10	
	( C,D,E,F )		
C1049	+	C CHIP 50V 470P	
C1050	ECUV1H222KBV	C CHIP 50V 2200P	
C1051	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C1053	ECUV1C104KBN	C CHIP 16V 0.1	
C1054	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C1055	ECUV1A105KBN	C CHIP 10V 1	
C1060	( C,D,E,F ) ECUV1C105ZFN	C CHTD +90%-20% 16W 1	
C1060 C1101	ECUVICIOSZEN ECUVOJ225KBN	C CHIP +80%-20% 16V 1 C CHIP 6.3V 2.2	
<u> </u>	( A,C,D,E )	C CHIP 0.3V 2.2	
C1102	ECUV1H102KBV	C CHIP 50V 1000P	
	( A,C,D,E )		
C1103	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
	( A,C,D,E )		
C2001		C CHIP +80%-20% 16V 0.1	
C2002	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C2003 C2007	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C2007	ECEV0JA220S ECUV1E333KBN	C CHIP 25V 0.033	
C2010		C CHIP 25V 0.068	
C2011	VCUSQAC334KB	C CHIP 16V 0.33	
C2012	ECUV1E473KBN	C CHIP 25V 0.047	
C2013	ECUV1E473KBN	C CHIP 25V 0.047	
C2015	ECUV1H152KBV	C CHIP 50V 1500P	
C2016	ECUV1H331KBV	C CHIP 50V 330P	
C2017	VCUSQAC105KB	C CHIP 16V 1	
C2021	ECUV1E473ZFV	C CHIP +80%-20% 25V 0.047	
C2022	ECUV1E473ZFN	C CHIP +80%-20% 25V 0.047 C CHIP 16V 0.1	
C2023 C2024	VCUSQAC105KB	C CHIP 16V U.I	
C2025	ECUV1E103KBN	C CHIP 25V 0.01	
C2030	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C2031	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C2032	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C2040	ECEV1CA100S	ELECTROLYTIC CHIP 16V 10	
C3001	VCUSQAA335KB	C CHIP 10V 3.3	-
C3002	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C3003	ECST0JX226	TANTALUM CHIP 6.3V 22	
C3005 C3006	ECUV1H220JCV ECUV1H332KBV	C CHIP +-5% 50V 22P C CHIP 50V 3300P	
C3006	ECUV1H332KBV		
C3008	ECUE1H103KBV	C CHIP 50V 0.01	
C3009	ECUV1H104ZFN	C CHIP +80%-20% 50V 0.1	
C3010	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C3011	ECUV1H221JCV	C CHIP +-5% 50V 220P	
C3012	ECUV1H821KBV	C CHIP 50V 820P	
C3013	ECUV1H560JCV	C CHIP +-5% 50V 56P	
C3014	ECUV1H331JCV		
C3015	ECUV1H561JCV ECUE1H103ZFV	C CHIP +-5% 50V 560P C CHIP +80%-20% 50V 0.01	
C3017			

Ref. No.   Part No.   Part Name & Description   Remark No.			FV-D300 / VM-D100 / FV-L330 / FV-L600	
C3018   MCUVIEIOAKEN   C CHIP 25V 0.1	1	Part No.	Part Name & Description	Remark
COURT   COURT   STATE   C CHIP   HON-20% SOV 0.01		MCITYLE 1 O AVEN	C CHID SEV O 1	s
C3021   ECSTOJAZ26   FANTALUM CHIP 6.3V 22				
C3024   ECUVILEATSKEN   C CHIP +80%-20% 16V 1		<del> </del>		
C3024 ECUVICIOSZEN C CHIP +80%-20% 16V 1  C3025 ECUEIHIOSRBY C CHIP 50V 0.01  C3026 ECUEIHIOSRBY C CHIP 50V 0.01  C3020 ECUEIHIOSRBY C CHIP 50V 0.01  C3030 ECUEIHIOSRBY C CHIP 50V 0.01  C3030 ECUVICIOSZEN C CHIP +80%-20% 50V 0.01  C3030 ECUVICIOSZEN C CHIP +80%-20% 16V 1  C3030 ECUVICIOSZEN C CHIP +80%-20% 16V 1  C3033 ECUVICIOSZEN C CHIP +80%-20% 16V 1  C3036 ECSTIAY475N TANTALUM CHIP 16V 4.7  C3036 ECSTIAY475N TANTALUM CHIP 16V 4.7  C3038 ECUVIHBOJCV C CHIP +5% 50V 56P  C3039 ECUVIHBOJCV C CHIP +5% 50V 56P  C3040 ECUVIHBOJCV C CHIP +5% 50V 18P  C3040 ECUVIHIOJZEV C CHIP +5% 50V 10P  C3041 ECSTOJX226 TANTALUM CHIP 6.3V 22  C3043 ECSTOJX226 TANTALUM CHIP 6.3V 22  C3045 ECSTOJX226 TANTALUM CHIP 6.3V 22  C3046 ECCUCAC218 ELECKROLYTIC CHIP 4V 220  C3047 VCUSQBA105KB C CHIP 10V 1  ( D )  C3048 ECULHIOJZEV C CHIP +5% 50V 30P  C3054 ECUVIHIOJCV C CHIP +5% 50V 10P  C3055 ECUVIHIOJCV C CHIP +5% 50V 10P  C3056 ECUVIHIOJCV C CHIP +5% 50V 10P  C3057 ECUVIHIOJCV C CHIP +5% 50V 12P  C3061 ECUCIHIOJZEV C CHIP +5% 50V 12P  C3062 ECUVIHIOJCV C CHIP +5% 50V 12P  C3063 ECUVIHIOJZEV C CHIP +5% 50V 12P  C3064 ECULHIOJZEV C CHIP +5% 50V 12P  C3065 ECUVIHIOJZEV C CHIP +5% 50V 12P  C3066 ECULHIOJZEV C CHIP +5% 50V 12P  C3067 ECUCIHIOJZEV C CHIP +5% 50V 12P  C3068 ECULHIOJZEV C CHIP +5% 50V 12P  C3060 ECULHIOJZEV C CHIP +5% 50V 12P  C3070 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3071 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3072 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3073 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3074 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3075 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3076 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3077 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3078 ECUCIHIOJZEV C CHIP +5% 50V 10P  C3079 ECUCIHIOJZEV C CHIP +50% -20% 50V 0.01  C3071 ECUCIHIOJZEV C CHIP +50% -20% 50V 0.01  C3072 ECUCIHIOJZEV C CHIP +50% -20% 50V 0.01  C3073 ECUCIHIOJZEV C CHIP +50% -20% 50V 0.01  C3074 ECOCHIO ECUCICI CHIP 6.3V 22  C4006 ECSTOJX226 TANTALUM C				
C3025 ECUEIHIO3KBV C CHIP 50V 0.01  C3028 ECUEIHIO3KBV C CHIP 50V 0.01  C3029 ECUEIHIO3KBV C CHIP 50V 0.01  C3030 ECUEIHIO3KBV C CHIP 50V 0.01  C3030 ECUEIHIO3KBV C CHIP 50V 0.01  C3030 ECUEIHIO3KBV C CHIP 50V 0.01  C3030 ECUEIHIO3KBV C CHIP 50V 3300P  C3031 ECUVICI224KBN C CHIP 50V 3300P  C3032 ECUVIE32ZF TANTALUM CHIP 16V 2.2  C3034 ECUVICICI05ZFN C CHIP +00×-20% 16V 1  C3036 ECSTIAY47SN TANTALUM CHIP 10V 4.7  C3038 ECUVIH180JCV C CHIP +5% 50V 56P  C3039 ECUVIH180JCV C CHIP +5% 50V 18P  C3040 ECUVIH103ZFV C CHIP +5% 50V 18P  C3041 ECUVIH103ZFV C CHIP +5% 50V 18P  C3042 ECSTOXX226 TANTALUM CHIP 6.3V 22  C3045 ECSTOXX226 TANTALUM CHIP 6.3V 22  C3046 ECEVOA3221S ELECTROLYTIC CHIP 4V 220  C3047 VCUSQBA105KB C CHIP 10V 1  (A,B,C,E,F,F)  ECUVIA105KBN C CHIP 10V 1  (D)  C3048 ECUVIH103ZFV C CHIP +5% 50V 10P  C3055 ECUVIH10JCV C CHIP +5% 50V 10P  C3056 ECUVIH10JCV C CHIP +5% 50V 10P  C3057 ECUVIH10JCV C CHIP +5% 50V 12P  C3058 ECUVIH10JCV C CHIP +5% 50V 12P  C3058 ECUVIH10JCV C CHIP +5% 50V 12P  C3050 ECUVIH10JCV C CHIP +5% 50V 10P  C3060 ECUVIH10JCV C CHIP +5% 50V 10P  C3070 ECUEIHI03ZFV C CHIP +5% 50V 10P  C3071 ECUEIHI03ZFV C CHIP +5% 50V 12P  C3086 ECUVIH10JCV C CHIP +5% 50V 12P  C3071 ECUEIHI03ZFV C CHIP +5% 50V 12P  C3072 ECUEIHI03ZFV C CHIP +5% 50V 12P  C3073 ECUEIHI03ZFV C CHIP +5% 50V 12P  C3074 ECOEIHI03ZFV C CHIP +5% 50V 12P  C3075 ECUEIHI03ZFV C CHIP +5% 50V 10P  C3077 ECUEIHI03ZFV C CHIP +5% 50V 10P  C3077 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3078 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3079 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3070 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3071 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3072 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3073 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3075 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3076 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3077 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3078 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3079 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3070 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3071 ECUEIHI03ZFV C CHIP +5% 50V 0.01  C3072 ECUEIHI03ZFV C CHIP +6% -20% 50V 0.01  C3073 ECUE	<b>-</b>			
C3028   ECUEIHIO3RBV   C CHIP 50V 0.01				
C3029   ECUEIHIO3KBV   C CHIP 50V 0.01				
C3030   ECUELHOSZEFV   C CHIP +80%-20% 50V 0.01				
C3031   ECUV1E224KBN   C CHIP 16V 0.22			•	
C3032 ECUV1H332KBV C CHIP 50V 3300P C3033 ECSTICY225 TANTALUM CHIP 16V 2.2 C3036 ECSTICY225 C CHIP 400+20% 16V 1 C3036 ECSTIAY475N TANTALUM CHIP 10V 4.7 C3038 ECUV1H503CV C CHIP +-5% 50V 56P C3039 ECUV1H503CV C CHIP +-5% 50V 18P C3040 ECUV1H103ZFV C CHIP +-5% 50V 18P C3041 ECST03X226 TANTALUM CHIP 6.3V 22 C3042 ECST03X226 TANTALUM CHIP 6.3V 22 C3043 ECST03X235 TANTALUM CHIP 6.3V 22 C3044 ECST03X35 TANTALUM CHIP 6.3V 22 C3045 ECST03X35 C CHIP 10V 1 ( A,B,C,E,F ) ) ECUV1A105KBN C CHIP 10V 1 ( D ) C3048 ECUV1H390CV C CHIP +-5% 50V 39P C3053 ECUV1H390CV C CHIP +-5% 50V 39P C3054 ECUV1H101CV C CHIP +-5% 50V 18P C3055 ECUV1H80CV C CHIP +-5% 50V 18P C3056 ECUV1H180CV C CHIP +-5% 50V 18P C3057 ECUV1H100CV C CHIP +-5% 50V 12P C3060 ECUV1H100ZV C CHIP +-5% 50V 12P C3061 ECUEH103ZFV C CHIP +-5% 50V 12P C3061 ECUV1H100ZV C CHIP +-5% 50V 12P C3062 ECUV1H100ZV C CHIP +-5% 50V 12P C3063 ECUV1H20CV C CHIP +-5% 50V 10P C3066 ECUVH120CV C CHIP +-5% 50V 10P C3070 ECUECIO4ZFV C CHIP +-5% 50V 0.01 C3070 ECUECIO4ZFV C CHIP +-5% 50V 10 C C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3078 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3079 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3070 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3071 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3072 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3073 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3076 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3078 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3079 ECUVH100ZFN C CHIP 50V 0.00P C3080 ECUVH100ZFN C CHIP 50V 0.00P C3090 ECUVH100ZFN C CHIP 50V 0.00P C3090 ECUVH100ZFN C CHIP 50V 0.00P C3090 ECUVH100ZFN C CHIP 50V 0.00P C3090 ECUVH100ZFN C CHIP 50V 0.00P C3090 ECUVH100ZFN C CHIP 50V 0.00P C3090 ECUVH100ZFN C CHIP 50V 0.00P C3090 ECUVH100ZFN C CHIP 50V 0.00P C3090 ECUVH1				
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C3034 ECUV1C105EFN C CHIP +80%-20% 16V 1 C3036 ECSTLAYATSN TANTALUM CHIP 10V 4.7 C3036 ECUV1H503ZFV C CHIP +5% 50V 56P C3039 ECUV1H103ZFV C CHIP +5% 50V 18P C3040 ECUV1H103ZFV C CHIP +5% 50V 18P C3040 ECUV1H103ZFV C CHIP +80%-20% 50V 0.01 C3042 ECST0JX226 TANTALUM CHIP 6.3V 22 C3043 ECST0JX226 TANTALUM CHIP 6.3V 22 C3046 ECCEVG0A2218 ELECTROLYTIC CHIP 4V 220 C3047 VCUSQBA105KB C CHIP 10V 1 CA,B,C,E,F CARROLY C CHIP +5% 50V 39P C3048 ECUV1H103ZFV C CHIP +80%-20% 50V 0.01 C3053 ECUV1H390JCV C CHIP +5% 50V 39P C3054 ECUV1H101JCV C CHIP +5% 50V 18P C3055 ECUV1H180JCV C CHIP +5% 50V 18P C3056 ECUV1H100JCV C CHIP +5% 50V 12P C3060 ECUV1H100JCV C CHIP +5% 50V 12P C3061 ECUV1H100JCV C CHIP +5% 50V 12P C3061 ECUV1H100JCV C CHIP +5% 50V 10P C3060 ECUV1H100JCV C CHIP +5% 50V 10P C3060 ECUV1H100JCV C CHIP +5% 50V 12P C3061 ECUEH103ZFV C CHIP +5% 50V 10P C3062 ECUV1H100JCV C CHIP +5% 50V 10P C3063 ECUV1H100JCV C CHIP +5% 50V 10P C3066 ECUV1H100JCV C CHIP +5% 50V 10P C3067 ECUEH103ZFV C CHIP +60%-20% 50V 0.01 C3070 ECUEL104ZFV C CHIP +60%-20% 50V 0.01 C3071 ECUEL104ZFV C CHIP +60%-20% 50V 0.01 C3072 ECUEH103ZFV C CHIP +60%-20% 50V 0.01 C3073 ECUEH103ZFV C CHIP +60%-20% 50V 0.01 C3076 ECUEH103ZFV C CHIP +60%-20% 50V 0.01 C3077 ECUEH103ZFV C CHIP +60%-20% 50V 0.01 C3078 ECUEH103ZFV C CHIP +60%-20% 50V 0.01 C3079 ECUVHH00ZKNV C CHIP 50V 1000P C3080 ECUVH103ZFV C CHIP +60%-20% 50V 0.01 C3098 ECUVH103ZFV C CHIP +60%-20% 50V 0.01 C3098 ECUVH103ZFV C CHIP +80%-20% 50V 0.01 C3015 ECUEH103ZFV C CHIP +80%-20% 50V 0.01 C3152 ECUV1H681KNV C CHIP 50V 1600P C4016 ECENDAZ26 TANTALUM CHIP 6.3V 22 C4004 ECST0JX226 TANTALUM CHIP 6.3V 22 C4006 ECST0JX226 TANTALUM CHIP 6.3V 22 C4007 ECUVHE2ZKNV C CHIP +80%-20% 50V 0.01 C3153 ECUVHR681KNV C CHIP 50V 200P C4010 ECUVH22ZKNV C CHIP 50V 200P C4011 ECSTCJX226 TANTALUM CHIP 6.3V 22 C4007 ECUVHR52KNV C CHIP 50V 200P C4011 ECSTCJX226	<b>—</b>			
C3036 ECST1AY475N TANTALUM CHIP 10V 4.7  C3039 ECUVH1803CVC C CHIP +-5% 50V 56P  C30309 ECUVH1803ZVC C CHIP +-5% 50V 18P  C3040 ECUVH103ZFV C CHIP +80%-20% 50V 0.01  C3042 ECST0JX226 TANTALUM CHIP 6.3V 22  C3043 ECST0JX325 TANTALUM CHIP 6.3V 2.2  C3045 ECST0JX335 TANTALUM CHIP 6.3V 3.3  C3046 ECEVOGA2Z1S ELECTROLYTIC CHIP 4V 220  C3047 VCUSQBA105KB C CHIP 10V 1  ( A,B,C,E,F )  ECUV1A105KBN C CHIP 10V 1  ( D)  C3048 ECUH103ZFV C CHIP +5% 50V 39P  C3053 ECUVH180JCV C CHIP +-5% 50V 100P  C3053 ECUVH180JCV C CHIP +-5% 50V 10P  C3055 ECUVH180JCV C CHIP +-5% 50V 18P  C3056 ECUVH180JCV C CHIP +-5% 50V 18P  C3057 ECUVH180JCV C CHIP +-5% 50V 10P  C3060 ECUVH120JCV C CHIP +-5% 50V 10P  C3061 ECUEH103ZFV C CHIP +-5% 50V 10P  C3062 ECUEH103ZFV C CHIP +-5% 50V 0.01  C3070 ECUEL103ZFV C CHIP +-5% 50V 0.01  C3071 ECUEH103ZFV C CHIP +-5% 50V 0.01  C3072 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3073 ECUEL103ZFV C CHIP +80%-20% 50V 0.01  C3076 ECUELH03ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUELH03ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3071 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3072 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3073 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3076 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3070 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3071 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3080 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3098 ECUEH103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUVH1661KBV C CHIP 50V 680P  ( A,C,D,E,F )  ( A,C,D,E,F )  ( A,C,D,E,F )  ( CHIP +80%-20% 50V 0.01  C3132 ECUVH1661KBV C CHIP 50V 200P  C4001 ECUVH162ZKBV C CHIP 5			TANTALUM CHIP 16V 2.2	
C3038   ECUV1H560JCV   C CHIP +-5% 50V 56P	C3034	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C3039   ECUV1H180JCV   C CHIF +5% 50V 18P	C3036	ECST1AY475N	TANTALUM CHIP 10V 4.7	
C3040 ECUV1H103ZFV C CHIP +80%-20% 50V 0.01 C3042 ECST0JX226 TANTALUM CHIP 6.3V 22 C3043 ECST0JX235 TANTALUM CHIP 6.3V 22 C3045 ECST0JX235 TANTALUM CHIP 6.3V 22 C3046 ECEVOGA22IS ELECTROLYTIC CHIP 4V 220 C3047 VCUSQBA105KB C CHIP 10V 1  ( A,B,C,E,F )  ECUV1A105KBN C CHIP 10V 1  ( D ) C3048 ECUV1H10JZFV C CHIP +80%-20% 50V 0.01 C3053 ECUV1H10JCC C CHIP +-5% 50V 100P C3054 ECUV1H10JCC C CHIP +-5% 50V 100P C3055 ECUV1H18JCC C CHIP +-5% 50V 100P C3057 ECUV1H10JCC C CHIP +-5% 50V 10P C3058 ECUV1H10JCC C CHIP +-5% 50V 12P C3059 ECUV1H10DCC C CHIP +-5% 50V 12P C3060 ECUV1H12JCC C CHIP +-5% 50V 12P C3061 ECUE1H103ZFV C CHIP +-5% 50V 10P C3062 ECUV1H10JCC C CHIP +-5% 50V 10P C3063 ECUV1H10DCC C CHIP +-5% 50V 10P C3064 ECUE1H103ZFV C CHIP +-5% 50V 10P C3065 ECUV1H10DCC C CHIP +-5% 50V 10P C3066 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3067 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3068 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3073 ECUEIL104ZFV C CHIP +80%-20% 50V 0.01 C3073 ECUEIL104ZFV C CHIP +80%-20% 16V 0.1 C3074 ECSELIC104ZFV C CHIP +80%-20% 16V 0.1 C3075 ECUEIL103ZFV C CHIP +80%-20% 50V 0.01 C3076 ECUEIL103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3078 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3079 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3078 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3079 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3081 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3082 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3083 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3084 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3085 ECUVIE104ZFN C CHIP +80%-20% 50V 0.01 C3132 ECUVIH103ZFV C CHIP +80%-20% 50V 0.01 C3133 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3133 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3133 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3135 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3136 ECUVIE103ZFV C CHIP +80%-20% 50V 0.01 C3137 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3139 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3130 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3131 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01 C3132 ECUVIH105ZFV C CHIP	C3038	ECUV1H560JCV	C CHIP +-5% 50V 56P	
C3042 ECSTOJX226 TANTALUM CHIP 6.3V 22  C3043 ECSTOJX325 TANTALUM CHIP 6.3V 22  C3045 ECSTOJX335 TANTALUM CHIP 6.3V 3.3  C3046 ECEVOGA221S ELECTROLYTIC CHIP 4V 220  C3047 VCUSQBAIOSKB C CHIP 10V 1  ( A,B,C,E,F )  ECUVIAIOSKBN C CHIP 10V 1  ( D )  C3048 ECUSIHIO3EV C CHIP +80%-20% 50V 0.01  C3053 ECUVIH390JCV C CHIP +5% 50V 39P  C3054 ECUVIH10JCV C CHIP +-5% 50V 180P  C3055 ECUVIH18JCV C CHIP +-5% 50V 180P  C3056 ECUVIH18UJCV C CHIP +-5% 50V 18P  C3057 ECUVIH18UJCV C CHIP +-5% 50V 12P  C3058 ECUVIH100JCV C CHIP +-5% 50V 10P  C3059 ECUVIH100JCV C CHIP +-5% 50V 10P  C3060 ECUVIH10JCV C CHIP +-5% 50V 10P  C3061 ECUSIH103EV C CHIP +80%-20% 50V 0.01  C3062 ECUVIH100JCV C CHIP +-5% 50V 12P  C3063 ECUVIH100JCV C CHIP +-5% 50V 12P  C3064 ECUSIH103EV C CHIP +80%-20% 50V 0.01  C3075 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3076 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3077 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3078 ECUSIL103EV C CHIP +80%-20% 16V 0.1  C3079 ECUSIL103EV C CHIP +80%-20% 16V 0.1  C3070 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3071 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3072 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3073 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3074 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3075 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3076 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3077 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3078 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3081 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3098 ECUVIL104ER C CHIP +80%-20% 50V 0.01  C3098 ECUVIL104ER C CHIP +80%-20% 50V 0.01  C3132 ECUVIC105EP C CHIP +80%-20% 50V 0.01  C3133 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3133 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3135 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3136 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3137 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3138 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3139 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3139 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3139 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3139 ECUSIL103EV C CHIP +80%-20% 50V 0.01  C3139 ECUSIL104EV C CHIP +80%-20% 50V 0	C3039	ECUV1H180JCV	C CHIP +-5% 50V 18P	
C3043 ECSTOJX226 TANTALUM CHIP 6.3V 22  C3046 ECEVOGA221S ELECTROLYTIC CHIP 4V 220  (A,B,C,E,F)  (A,B,C,E,F)  ECUVIAIO5KBN C CHIP 10V 1  (A,B,C,E,F)  ECUVIAIO5KBN C CHIP 10V 1  (A,B,C,E,F)  ECUVIAIO5KBN C CHIP 10V 1  (D)  C3048 ECUEIHIO3ZFV C CHIP +80%-20% 50V 0.01  C3053 ECUVIH390JCV C CHIP +-5% 50V 100P  C3055 ECUVIH390JCV C CHIP +-5% 50V 100P  C3055 ECUVIH30JCV C CHIP +-5% 50V 12P  C3057 ECUVIH30JCV C CHIP +-5% 50V 12P  C3058 ECUVIH120JCV C CHIP +-5% 50V 12P  C3061 ECUVIH120JCV C CHIP +-5% 50V 12P  C3063 ECUVIH120JCV C CHIP +-5% 50V 12P  C3066 ECUVIH120JCV C CHIP +-5% 50V 12P  C3067 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3070 ECUEIC104ZFV C CHIP +80%-20% 50V 0.01  C3071 ECUEIC104ZFV C CHIP +80%-20% 16V 0.1  C3072 ECUEIL103ZFV C CHIP +80%-20% 16V 0.1  C3073 ECUEIC104ZFV C CHIP +80%-20% 16V 0.1  C3074 ECSTOJX226 TANTALUM CHIP 6.3V 22  C3075 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3076 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3070 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3071 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3072 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3073 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3076 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3080 ECUVIEI04ZFN C CHIP +80%-20% 50V 0.01  C3080 ECUVIEI04ZFN C CHIP +80%-20% 50V 0.01  C3132 ECUVICI05ZFN C CHIP +80%-20% 50V 0.01  C3132 ECUVICI05ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUVIEI03ZFV C CHIP +80%-20% 50V 0.01  C3133 ECUVIEI03ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUVIEI03ZFV C CHIP +80%-20% 50V 0.01  C3153 ECUVIEI03ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUVIEIXEV C CHIP +80%-20% 50V 0.01  C3153 ECUVIEIXEV C CHIP +80%-20% 50V 0.01  C3150 ECUEIH03ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUEIH03ZFV C CHIP +80%-20	C3040	ECUV1H103ZFV	C CHIP +80%-20% 50V 0.01	
C3045 ECSTOJY335 TANTALUM CHIP 6.3V 3.3  C3046 ECEVOGA221S ELECTROLYTIC CHIP 4V 220  (A,B,C,E,F) )  ECUVIAIOSKEN C CHIP 10V 1  (D)  C3048 ECUEIH103ZFV C CHIP +80%-20% 50V 0.01  C3053 ECUVIH103JCV C CHIP +-5% 50V 100P  C3055 ECUVIH18JCV C CHIP +-5% 50V 180P  C3056 ECUVIH10JCV C CHIP +-5% 50V 180P  C3057 ECUVIH10JCV C CHIP +-5% 50V 12P  C3058 ECUVIH10JCV C CHIP +-5% 50V 12P  C3060 ECUVIH12JCV C CHIP +-5% 50V 10P  C3061 ECUVIH10JCV C CHIP +-5% 50V 10P  C3062 ECUVIH10JCV C CHIP +-5% 50V 10P  C3063 ECUVIH10JCV C CHIP +-5% 50V 10P  C3064 ECUEIH10JZFV C CHIP +-5% 50V 10P  C3065 ECUVIH10JZFV C CHIP +-5% 50V 10P  C3066 ECUEIH10JZFV C CHIP +80%-20% 50V 0.01  C3076 ECUEIH10JZFV C CHIP +80%-20% 50V 0.01  C3077 ECUEIC104ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUEIH10JXFV C CHIP +80%-20% 16V 0.1  C3077 ECUEIH10JXFV C CHIP +80%-20% 16V 0.1  C3078 ECUEIH10JXFV C CHIP +80%-20% 10V 0.01  C3079 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3071 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3072 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3073 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3079 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3079 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3080 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3081 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3132 ECUVICIO5EFN C CHIP +80%-20% 50V 0.01  C3133 ECUVIEI04ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUVIEI04ZFN C CHIP +80%-20% 50V 0.01  C3135 ECUVIH681XFV C CHIP +80%-20% 50V 0.01  C3152 ECUVIH681XFV C CHIP +80%-20% 50V 0.01  C3153 ECUVIH691XFV C CHIP +80%-20% 50V 0.01  C3154 ECUEIH10JXFV C CHIP +80%-20% 50V 0.01  C3155 ECUVIH681XFV C CHIP +80%-20% 50V 0.01  C3156 ECUVIH691XFV C CHIP +80%-20% 50V 0.01  C3157 ECUVIH691XFV C CHIP +80%-20% 50V 0.01  C3158 ECUVIH691XFV C CHIP +80%-20% 50V 0.01  C3159 ECUVIH691XFV C CHIP +80%-20% 50V 0.01  C3150 ECUVIH00XFV C CHIP +80%-20% 50V 0.01  C3151 ECUVIH00XFV C CHIP +80%-20% 50V 0.01	C3042	ECST0JX226	TANTALUM CHIP 6.3V 22	
C3046 ECEV0GA221S ELECTROLYTIC CHIP 4V 220  C3047 VCUSQBA105KB C CHIP 10V 1  ( A,B,C,E,F)  ECUVIAIO5KBN C CHIP 10V 1  ( D )  C3048 ECUVIHIO3ZFV C CHIP +80%-20% 50V 0.01  C3053 ECUVIHI3JCV C CHIP +5% 50V 139P  C3054 ECUVIHI3JCV C CHIP +5% 50V 180P  C3055 ECUVIHI8JCV C CHIP +5% 50V 180P  C3056 ECUVIHI8JCV C CHIP +5% 50V 180P  C3057 ECUVIHI8JCV C CHIP +5% 50V 12P  C3058 ECUVIHI2OJCV C CHIP +5% 50V 12P  C3060 ECUVIHI2OJCV C CHIP +5% 50V 12P  C3061 ECUVIHI3OZFV C CHIP +5% 50V 12P  C3061 ECUVIHI3OZFV C CHIP +80%-20% 50V 0.01  C3068 ECUVIHI0OZFV C CHIP +80%-20% 16V 0.1  C3070 ECUEILO104ZFV C CHIP +80%-20% 16V 0.1  C3071 ECUEILO104ZFV C CHIP +80%-20% 16V 0.1  C3072 ECUEIHO3XFV C CHIP +80%-20% 16V 0.1  C3073 ECUEIHO3XFV C CHIP +80%-20% 50V 0.01  C3074 ECUEIHO3XFV C CHIP +80%-20% 50V 0.01  C3075 ECUEIHO3XFV C CHIP +80%-20% 50V 0.01  C3076 ECUEIHO3XFV C CHIP +80%-20% 50V 0.01  C3077 ECUEIHO3XFV C CHIP +80%-20% 50V 0.01  C3078 ECUEIHO3XFV C CHIP +80%-20% 50V 0.01  C3079 ECUVIHO2XFV C CHIP +80%-20% 50V 0.01  C3079 ECUVIHO2XFV C CHIP +80%-20% 50V 0.01  C3079 ECUVIHO2XFV C CHIP +80%-20% 50V 0.01  C3080 ECUVIHO3XFV C CHIP +80%-20% 50V 0.01  C3080 ECUVIHO3XFV C CHIP +80%-20% 50V 0.01  C3098 ECUVIEIO4ZFN C CHIP +80%-20% 50V 0.01  C3098 ECUVIEIO4ZFN C CHIP +80%-20% 50V 0.01  C3132 ECUEIHO3XFV C CHIP +80%-20% 50V 0.01  C3133 ECUVILO5XFN C CHIP +80%-20% 50V 0.01  C3133 ECUVILO5XFN C CHIP +80%-20% 50V 0.01  C3135 ECUVIH681XFV C CHIP +80%-20% 50V 0.01  C3150 ECUVIH681XFV C CHIP +80%-20% 50V 0.01  C3151 ECUVIH681XFV C CHIP +80%-20% 50V 0.01  C3152 ECUVIH681XFV C CHIP +80%-20% 50V 0.01  C3153 ECUVIH681XFV C CHIP +80%-20% 50V 0.01  C3164 ECXTOJX226 TANTALUM CHIP 6.3V 22  C4004 ECXTOJX226 TANTALUM CHIP 6.3V 22  C4006 ECXTOJX226 TANTALUM CHIP 6.3V 22  C4007 ECUVICIO5XFN C CHIP +80%-20% 50V 0.01  C4008 ECUVIH822XFV C CHIP 50V 800P  C4009 ECUVIH822XFV C CHIP 50V 800P  C4001 ECXTOJX226 TANTALUM CHIP 6.3V 22  C4000 ECXTOJX226 TANTALUM CHIP 6.3V 22  C4001 ECXTOJX226 TANTALUM CHIP 6.3V 22  C4001 ECXTOJX226 TANTALUM CHIP 6.3V 22  C4001 ECXTOJX22	C3043	ECST0JX226	TANTALUM CHIP 6.3V 22	
C3047   VCUSQBA105KB   C CHIP 10V 1	C3045	ECST0JY335	TANTALUM CHIP 6.3V 3.3	
( A,B,C,E,F, )   ECUVIA105KBN   C CHIP 10V 1     ( D )	C3046	ECEV0GA221S	ELECTROLYTIC CHIP 4V 220	
( A,B,C,E,F )	C3047	VCUSQBA105KB	C CHIP 10V 1	
CUVIA105KBN   C CHIP 10V 1				
( D ) C3048 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3053 ECUV1H30JCV C CHIP +-5% 50V 39P C3054 ECUV1H181JCV C CHIP +-5% 50V 100P C3055 ECUV1H180JCV C CHIP +-5% 50V 180P C3057 ECUV1H180JCV C CHIP +-5% 50V 18P C3058 ECUV1H120JCV C CHIP +-5% 50V 18P C3059 ECUV1H120JCV C CHIP +-5% 50V 12P C3060 ECUV1H120JCV C CHIP +-5% 50V 12P C3061 ECUE1H103ZFV C CHIP +-5% 50V 12P C3061 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3068 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3070 ECUE1C104ZFV C CHIP +80%-20% 50V 0.01 C3073 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1 C3073 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1 C3074 ECST0JX226 TANTALUM CHIP 6.3V 22 C3075 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3079 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3079 ECUE1H103ZFV C CHIP 50V 1000P C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3081 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3082 ECUV1H104ZFN C CHIP +80%-20% 50V 0.01 C3083 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3132 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3132 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3133 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3132 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3150 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3151 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3152 ECUF1H03ZFV C CHIP +80%-20% 50V 0.01 C3153 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3154 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3155 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3150 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3151 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3152 ECUF1H03ZFV C CHIP +80%-20% 50V 0.01 C3153 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3154 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3155 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3150 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3151 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3152 ECUENDACACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		I.		
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C3055 ECUV1H181JCV C CHIP +-5% 50V 180P  C3057 ECUV1H180JCV C CHIP +-5% 50V 18P  C3058 ECUV1H120JCV C CHIP +-5% 50V 12P  C3060 ECUV1H120JCV C CHIP +-5% 50V 12P  C3061 ECUV1H103ZFV C CHIP +-5% 50V 12P  C3061 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3068 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3070 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1  C3071 ECUE1H103ZFV C CHIP +80%-20% 16V 0.1  C3073 ECUE1H103ZFV C CHIP +80%-20% 16V 0.1  C3074 ECST0JX226 TANTALUM CHIP 6.3V 22  C3075 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H10ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H10ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3098 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3132 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3131 ECUV1E103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1E103ZFV C CHIP +80%-20% 50V 0.01  C3133 ECUV1E103ZFV C CHIP +80%-20% 50V 0.01  C3133 ECUV1E103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JX226 TANTALUM CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP 50V 200P  C4010 ECUV1E22TREV C CHIP 50V 200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4008 ECUV1H221REV C CHIP 50V 200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3053	ECUV1H390JCV	C CHIP +-5% 50V 39P	
C3057 ECUV1H180JCV C CHIP +-5% 50V 18P  C3058 ECUV1H120JCV C CHIP +-5% 50V 12P  C3059 ECUV1H120JCV C CHIP +-5% 50V 12P  C3060 ECUV1H120JCV C CHIP +-5% 50V 12P  C3061 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3068 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3070 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1  C3071 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1  C3073 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1  C3074 ECST0JX226 TANTALUM CHIP 6.3V 22  C3075 ECUE1H103XBV C CHIP +80%-20% 50V 0.01  C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H102KBV C CHIP 50V 1000P  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3086 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3131 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUV1C105ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUV1H03ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUV1H03ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H03ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1C681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JX106 TANTALUM CHIP 6.3V 22  C4004 ECST0JX226 TANTALUM CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP 50V 8200P  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4009 ECUV1E32XBV C CHIP 50V 8200P  C4010 ECUV1E32XBV C CHIP 50V 8200P  C4011 ECST1CX105 TANTALUM CHIP 16V 1  C4012 ECUV1H32ZKBV C CHIP 50V 8200P  C4011 ECST1CX105 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3	C3054	ECUV1H101JCV	C CHIP +-5% 50V 100P	
C3057 ECUV1H180JCV C CHIP +-5% 50V 18P C3058 ECUV1H120JCV C CHIP +-5% 50V 12P C3059 ECUV1H120JCV C CHIP +-5% 50V 12P C3061 ECUV1H120JCV C CHIP +-5% 50V 12P C3061 ECUV1H120JCV C CHIP +80%-20% 50V 0.01 C3068 ECUV1H103ZFV C CHIP +80%-20% 50V 0.01 C3070 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1 C3071 ECUE1H103KBV C CHIP 50V 0.01 C3073 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1 C3074 ECST0JX226 TANTALUM CHIP 6.3V 22 C3075 ECUE1H103KBV C CHIP 50V 0.01 C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3079 ECUV1H103ZFV C CHIP +80%-20% 50V 0.01 C3079 ECUV1H103ZFV C CHIP +80%-20% 50V 0.01 C3080 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3081 ECUE1H03ZFV C CHIP +80%-20% 50V 0.01 C3088 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3088 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3098 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01 C3133 ECUV1E104ZFV C CHIP +80%-20% 50V 0.01 C3133 ECUV1E103ZFV C CHIP +80%-20% 50V 0.01 C3133 ECUV1E103ZFV C CHIP +80%-20% 50V 0.01 C3133 ECUV1H03ZFV C CHIP +80%-20% 50V 0.01 C3133 ECUV1H03ZFV C CHIP +80%-20% 50V 0.01 C3152 ECUV1H68KBV C CHIP +80%-20% 50V 0.01 C3153 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3152 ECUV1H68KBV C CHIP 50V 680P  ( A,C,D,E,F  ) C3153 ECUV1H68LBV C CHIP 50V 680P  ( A,C,D,E,F  ) C4004 ECST0JX226 TANTALUM CHIP 6.3V 22 C4006 ECST0JX226 TANTALUM CHIP 6.3V 22 C4007 ECUV1C105ZFN C CHIP 50V 680P  C4008 ECUV1E273KBN C CHIP 50V 200P C4010 ECUV1R22KBV C CHIP 50V 200P C4011 ECST1CY105 TANTALUM CHIP 16V 1 ECST1CY105 TANTALUM CHIP 16V 1 ECST1CY105 TANTALUM CHIP 16V 1 ECST1CY105 TANTALUM CHIP 16V 1 ECST1CY105 TANTALUM CHIP 16V 1 ECST1CY105 TANTALUM CHIP 16V 1 ECST1CY105 TANTALUM CHIP 16V 1 ECUV1H222KBV C CHIP 50V 2200P C4011 ECST1CY105 TANTALUM CHIP 16V 1 ECUV1H222KBV C CHIP 50V 2200P C4011 ECST0JX226 TANTALUM CHIP 16V 1 ECST0JX226 TANTALUM CHIP 16V 1 ECST0JX226 TANTALUM CHIP 6.3V 22	C3055	ECUV1H181JCV	C CHIP +-5% 50V 180P	
C3058 ECUV1H120JCV C CHIP +-5% 50V 12P C3069 ECUV1H100DCV C CHIP +-0.5P 50V 10P C3060 ECUV1H120JCV C CHIP +-0% 50V 10P C3061 ECUV1H103ZFV C CHIP +80%-20% 50V 0.01 C3068 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3070 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1 C3070 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1 C3073 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1 C3074 ECST0JX226 TANTALUM CHIP 6.3V 22 C3075 ECUE1H103XBV C CHIP +80%-20% 50V 0.01 C3077 ECUE1H103XBV C CHIP +80%-20% 50V 0.01 C3077 ECUE1H103XFV C CHIP +80%-20% 50V 0.01 C3079 ECUV1H102XBV C CHIP +80%-20% 50V 0.01 C3079 ECUV1H102XBV C CHIP +80%-20% 50V 0.01 C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3082 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3083 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3098 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01 C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01 C3133 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01 C31339 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C31350 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01 C3151 ECUV1H681KBV C CHIP +80%-20% 50V 0.01 C3152 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F ) C4002 ECST0JX226 TANTALUM CHIP 6.3V 22 C4004 ECST0JY106 TANTALUM CHIP 6.3V 22 C4006 ECST0JX226 TANTALUM CHIP 6.3V 22 C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1 C4008 ECUV1E273KBN C CHIP 50V 8200P C4010 ECUV1221KBV C CHIP 50V 8200P C4011 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 1 1 ECST1CY105 TANTALUM CHIP 16 3V 22 ECUV1H622KBV C CHIP 50V 1200P EAU11 ECST1CY105 TANTALUM CHIP 6.3V 22				
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C3072 ECUE1H103KBV C CHIP 50V 0.01  C3073 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1  C3074 ECST0JX226 TANTALUM CHIP 6.3V 22  C3075 ECUE1H103ZFV C CHIP 50V 0.01  C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H102KBV C CHIP 50V 1000P  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3098 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1G1681KBV C CHIP +80%-20% 50V 0.01  C3152 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1E05ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 8200P  C4011 ECST1CY105 TANTALUM CHIP 16 IV 1  C4012 ECST0JX22KBV C CHIP 50V 220P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16 IV 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 16 IV 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3				
C3073 ECUE1C104ZFV C CHIP +80%-20% 16V 0.1  C3074 ECST0JX226 TANTALUM CHIP 6.3V 22  C3075 ECUE1H103KBV C CHIP 50V 0.01  C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H10ZKBV C CHIP 50V 1000P  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3083 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3098 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F  )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JX226 TANTALUM CHIP 6.3V 22  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H82ZKBV C CHIP 50V 8200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H15ZKBV C CHIP 50V 1500P  C4013 ECUV1H22KBV C CHIP 50V 220P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 16V 1				
C3074 ECSTOJX226 TANTALUM CHIP 6.3V 22  C3075 ECUE1H103KBV C CHIP 50V 0.01  C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H10ZKBV C CHIP 50V 1000P  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3098 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3137 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C3153 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECSTOJX226 TANTALUM CHIP 6.3V 22  C4004 ECSTOJY106 TANTALUM CHIP 6.3V 10  C4005 ECEVOJA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECSTOJX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECSTICY105 TANTALUM CHIP 16V 1  C4012 ECUV1H15ZKBV C CHIP 50V 220P  C4013 ECUV1H222KBV C CHIP 50V 220P  C4014 ECSTOJX226 TANTALUM CHIP 16V 1  C4016 ECEVHA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECSTOJX226 TANTALUM CHIP 6.3V 22				
C3075 ECUE1H103KBV C CHIP 50V 0.01  C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H102KBV C CHIP 50V 1000P  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3098 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3107 ECUE1H103ZFV C CHIP +80%-20% 25V 0.1  C31107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3136 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C3153 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H15ZKBV C CHIP 50V 220P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22		<del> </del>		
C3077 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H102KBV C CHIP 50V 1000P  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 50V 0.01  C3098 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JX226 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 220P  C4013 ECUV1H22KBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3		<del> </del>		
C3078 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3079 ECUV1H10ZKBV C CHIP 50V 1000P  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3098 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3107 ECUE1H103ZFV C CHIP +80%-20% 25V 0.1  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3137 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C3153 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 12  C4004 ECST0JX226 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP 50V 820P  C4008 ECUV1E273KBN C CHIP 50V 820P  C4010 ECUV1H822KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 220P  C4013 ECUV1H52KBV C CHIP 50V 220P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4015 CCUV1H52KBV C CHIP 50V 220P  C4016 ECEV1H3R3R3 ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1H3R3S ELECTROLYTIC CHIP 50V 3.3		<del> </del>		
C3079 ECUV1H102KBV C CHIP 50V 1000P  C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3098 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C3153 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JX226 TANTALUM CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 220P  C4013 ECUV1H52KBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4015 CCUV1H52KBV C CHIP 50V 220P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 2200P  C4013 ECUV1H322KBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C3080 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3098 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3133 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C3153 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 8200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 220P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C3081 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3085 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3098 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C3153 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H82ZKBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 220P  C4013 ECUV1H22RBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4015 CUSQBA105KB C CHIP 50V 2200P  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C3085 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3098 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 50V 0.01  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C3153 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 220P  C4013 ECUV1H32ZKBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4015 CYUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C3098 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1  C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3151 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C3153 ECUV1H681KBV C CHIP 50V 680P  ( A,C,D,E,F )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 8200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 220P  C4013 ECUV1H22KBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3081	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C3107 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3132 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C3153 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 8200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 220P  C4013 ECUV1H22KBV C CHIP 50V 2200P  C4014 ECST1CY105 TANTALUM CHIP 16V 1  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3085	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3132 ECUVIC105ZFN C CHIP +80%-20% 16V 1  C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C3153 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 20P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H52KBV C CHIP 50V 220P  C4013 ECUV1H22KBV C CHIP 50V 2200P  C4014 ECST1CY105 TANTALUM CHIP 16V 1  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3098	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C3135 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C3153 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 8200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 220P  C4013 ECUV1H22KBV C CHIP 50V 2200P  C4014 ECST1CY105 TANTALUM CHIP 16V 1  C4015 CCUV1H22KBV C CHIP 50V 2200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 2200P  C4013 ECUV1H22KBV C CHIP 50V 2200P  C4014 ECST0JX226 TANTALUM CHIP 16V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3107	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C3139 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C3153 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4010 ECUV1H822KBV C CHIP 50V 8200P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H22KBV C CHIP 50V 2200P  C4014 ECST1CY105 TANTALUM CHIP 16V 1  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3132	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C3150 ECUE1H103ZFV C CHIP +80%-20% 50V 0.01  C3152 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C3153 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F)  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 25V 0.027  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H22ZKBV C CHIP 50V 2200P  C4014 CCUV1H22ZKBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3135	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C3152 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F) C3153 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F) C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP 50V 8200P  C4008 ECUV1E273KBN C CHIP 50V 8200P  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4014 CCUV1H222KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3139	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
(A,C,D,E,F) ) C3153 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F) (A,C,D,E,F) ) C4002 ECST0JX226 TANTALUM CHIP 6.3V 22 C4004 ECST0JY106 TANTALUM CHIP 6.3V 10 C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22 C4006 ECST0JX226 TANTALUM CHIP 6.3V 22 C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1 C4008 ECUV1E273KBN C CHIP 25V 0.027 C4009 ECUV1H822KBV C CHIP 50V 8200P C4010 ECUV1H221KBV C CHIP 50V 220P C4011 ECST1CY105 TANTALUM CHIP 16V 1 C4012 ECUV1H152KBV C CHIP 50V 1500P C4013 ECUV1H222KBV C CHIP 50V 2200P C4014 CCUV1H222KBV C CHIP 50V 2200P C4015 VCUSQBA105KB C CHIP 10V 1 C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3 C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3150	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
(A,C,D,E,F) C3153 ECUV1H681KBV C CHIP 50V 680P (A,C,D,E,F) (A,C,D,E,F) (A,C,D,E,F) C4002 ECST0JX226 TANTALUM CHIP 6.3V 22 C4004 ECST0JY106 TANTALUM CHIP 6.3V 10 C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22 C4006 ECST0JX226 TANTALUM CHIP 6.3V 22 C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1 C4008 ECUV1E273KBN C CHIP 25V 0.027 C4009 ECUV1H822KBV C CHIP 50V 8200P C4010 ECUV1H221KBV C CHIP 50V 220P C4011 ECST1CY105 TANTALUM CHIP 16V 1 C4012 ECUV1H152KBV C CHIP 50V 1500P C4013 ECUV1H222KBV C CHIP 50V 2200P C4014 ECST0JX226 CHIP 50V 2200P C4015 VCUSQBA105KB C CHIP 10V 1 C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3 C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3152	ECUV1H681KBV	C CHIP 50V 680P	
C3153 ECUV1H681KBV C CHIP 50V 680P  (A,C,D,E,F) )  C4002 ECST0JX226 TANTALUM CHIP 6.3V 22  C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 25V 0.027  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H22ZKBV C CHIP 50V 2200P  C4014 CCUV1H22ZKBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22		( A,C,D,E,F		
(A,C,D,E,F) ) C4002 ECST0JX226 TANTALUM CHIP 6.3V 22 C4004 ECST0JY106 TANTALUM CHIP 6.3V 10 C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22 C4006 ECST0JX226 TANTALUM CHIP 6.3V 22 C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1 C4008 ECUV1E273KBN C CHIP 25V 0.027 C4009 ECUV1H822KBV C CHIP 50V 8200P C4010 ECUV1H221KBV C CHIP 50V 220P C4011 ECST1CY105 TANTALUM CHIP 16V 1 C4012 ECUV1H152KBV C CHIP 50V 1500P C4013 ECUV1H22KBV C CHIP 50V 2200P C4014 CCV1H22KBV C CHIP 50V 2200P C4015 VCUSQBA105KB C CHIP 10V 1 C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3 C4017 ECST0JX226 TANTALUM CHIP 6.3V 22		)		
) C4002 ECST0JX226 TANTALUM CHIP 6.3V 22 C4004 ECST0JY106 TANTALUM CHIP 6.3V 10 C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22 C4006 ECST0JX226 TANTALUM CHIP 6.3V 22 C4007 ECUV1C105zFN C CHIP +80%-20% 16V 1 C4008 ECUV1E273KBN C CHIP 25V 0.027 C4009 ECUV1H822KBV C CHIP 50V 8200P C4010 ECUV1H221KBV C CHIP 50V 220P C4011 ECST1CY105 TANTALUM CHIP 16V 1 C4012 ECUV1H152KBV C CHIP 50V 1500P C4013 ECUV1H222KBV C CHIP 50V 220P C4014 CCV1H222KBV C CHIP 50V 220P C4015 VCUSQBA105KB C CHIP 10V 1 C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3 C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C3153	ECUV1H681KBV	C CHIP 50V 680P	
C4004 ECST0JY106 TANTALUM CHIP 6.3V 10  C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 25V 0.027  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4014 ECUV1H22KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22		( A,C,D,E,F		
C4004 ECSTOJY106 TANTALUM CHIP 6.3V 10  C4005 ECEVOJA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECSTOJX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 25V 0.027  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4014 ECUV1H22KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECSTOJX226 TANTALUM CHIP 6.3V 22		)		
C4005 ECEV0JA220S ELECTROLYTIC CHIP 6.3V 22  C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 25V 0.027  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C4002	ECST0JX226	TANTALUM CHIP 6.3V 22	
C4006 ECST0JX226 TANTALUM CHIP 6.3V 22  C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 25V 0.027  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4014 CCUV1H22KBV C CHIP 50V 1500P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C4004	ECST0JY106	TANTALUM CHIP 6.3V 10	
C4007 ECUV1C105ZFN C CHIP +80%-20% 16V 1  C4008 ECUV1E273KBN C CHIP 25V 0.027  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C4005	ECEV0JA220S	ELECTROLYTIC CHIP 6.3V 22	
C4008 ECUV1E273KBN C CHIP 25V 0.027  C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C4006	ECST0JX226	TANTALUM CHIP 6.3V 22	
C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C4007	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C4009 ECUV1H822KBV C CHIP 50V 8200P  C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22	C4008	ECUV1E273KBN	C CHIP 25V 0.027	
C4010 ECUV1H221KBV C CHIP 50V 220P  C4011 ECST1CY105 TANTALUM CHIP 16V 1  C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C4011 ECST1CY105 TANTALUM CHIP 16V 1 C4012 ECUV1H152KBV C CHIP 50V 1500P C4013 ECUV1H222KBV C CHIP 50V 2200P C4015 VCUSQBA105KB C CHIP 10V 1 C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3 C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C4012 ECUV1H152KBV C CHIP 50V 1500P  C4013 ECUV1H222KBV C CHIP 50V 2200P  C4015 VCUSQBA105KB C CHIP 10V 1  C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3  C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C4013 ECUV1H222KBV C CHIP 50V 2200P C4015 VCUSQBA105KB C CHIP 10V 1 C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3 C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C4015 VCUSQBA105KB C CHIP 10V 1 C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3 C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C4016 ECEV1HA3R3S ELECTROLYTIC CHIP 50V 3.3 C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
C4017 ECST0JX226 TANTALUM CHIP 6.3V 22				
				-
C4018  ECUVIHIU3KBN  C CHIP 50V U.UI				
	C4018	FCOATHIO3KBN	CHIP DUV U.UI	

/ VM-D100 / PV-L550 / PV-L600 / PV-L650 / VM-L450			
Ref. No.	Part No.	Part Name & Description	Remark s
C4019	ECST1AY475N	TANTALUM CHIP 10V 4.7	
C4020	ECUV1H470JCV	C CHIP +-5% 50V 47P	
C4021	ECUV1H102KBV	C CHIP 50V 1000P	
C4022	ECUT2A472JCW	C CHIP +-5% 100V 4700P	
C4023	ECUV1H682KBN	C CHIP 50V 6800P	
C4024	ECUV1E223KBV	C CHIP 25V 0.022	
C4025	VCUSQBA105KB	CCHIP 10V 1	
C4026	ECST0JX226	TANTALUM CHIP 6.3V 22	
C4027	ECUV1H104ZFN	C CHIP +80%-20% 50V 0.1	
C4041	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C6001	ECUV1H330JCV	C CHIP +-5% 50V 33P	
C6002	ECUV1C224KBN	C CHIP 16V 0.22	
C6004	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C6006	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C6007	ECUV1H120JCV	C CHIP +-5% 50V 12P	
C6008	ECUV1H100DCV	C CHIP +-0.5P 50V 10P	
C6009	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C6011	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C6013	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C6014	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C6017	ECUV1E104KBN	C CHIP 25V 0.1	
C6018	ECUV1A105KBN	C CHIP 10V 1	
C6020	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C6022	ECUE1H103ZFV	C CHIP +80%-20% 50V 0.01	
C6023	ECUV1H102KBV	C CHIP 50V 1000P	
C6025	ECEV0JA470S	ELECTROLYTIC CHIP 6.3V 47	
C6028	ECUV1H0R5CCV	C CHIP +-0.25P 50V 0.5P	
C6029	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C6031	ECUE1H103KBV	C CHIP 50V 0.01	
C6032	ECUE1H103KBV	C CHIP 50V 0.01	
C6044	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	
C6201	ECUV1C104KBV	C CHIP 16V 0.1	
C6202	ECUV1C104KBV	C CHIP 16V 0.1	
C6207	ECUE1H121JCV	C CHIP +-5% 50V 120P	
C6208	ECUV1C224ZFN	C CHIP +80%-20% 16V 0.22	
C6214	ECUV1H102KBV	C CHIP 50V 1000P	
C6220	TCUV1C155ZFM	C CHIP +80%-20%16V 1.5	
C6221	ECUV1H392KBV	C CHIP 50V 3900P	
C6222	VCUSQAC105KB	C CHIP 16V 1	
C6223	ECST0JX226	TANTALUM CHIP 6.3V 22	

#### **FILTERS**

Ref.	Part No.	Part Name & Description	Remark
No.			s
FL3001	VLFW0041		

#### COILS

Ref.	Part No.	Part Name & Description	Remark
No.			s
L302	VLQ0426J470	CHIP +-5% 47	
L303	VLQ0426J330	CHIP +-5% 33	
L304	ELJFA150KF2	15	
L305	VLQ0426J3R9	CHIP 3.9	
L307	ELJFA101KF2	CHIP 100	
L308	VLQ0319K100	CHIP 10	
L311	VLQ0163K1R0	CHIP 1	
L601	VLQ0163K470	CHIP 47	
L602	VLQ0426J150	CHIP +-5% 15	
L605	VLQ0163K150	CHIP 15	
L1001	NP05DA100M	+-20% 10	
L1002	NP05DA100M	+-20% 10	
L1003	NP05DA330M	+-20% 33	
L1004	NP05DA330M	+-20% 33	
L1005	N05DA100K	10	
L1006	VLQ0319K100	CHIP 10	
L1007	VLJW3TC100KT	CHIP 10	
L1008	N05DA100K	10	
L1009	VLQ0426J470	CHIP +-5% 47	
L1010	VLQ0426J470	CHIP +-5% 47	
L1011	VLQ0426J470	CHIP +-5% 47	
L1012	VLQ0319K100	CHIP 10	
L1013	VLQ0319K101	CHIP 100	
L1014	LSLJCMA4R7MF	CHIP +-20% 4.7	
L1015	LSLJDJA100KF	CHIP 10	

Ref.	Part No.	Part Name & Description	Remark
No.			s
	( C,D,E,F )		
L3001	VLJW3TC470KT	CHIP 47	
L3002	VLJW3TC470KT	CHIP 47	
L3003	VLJW3TC470KT	CHIP 47	
L3004	VLJW3TC470KT	CHIP 47	
L3006	VLJW3TC470KT	CHIP 47	
L3009	VLQ0426J820	CHIP +-5% 82	
L3011	VLQ0426J470	CHIP +-5% 47	
L3012	VLQ0426J120	CHIP +-5% 12	
L3013	VLQ0163J331	CHIP +-5% 330	
L3014	VLQ0426J180	CHIP +-5% 18	
L3015	VLQ0163J331	CHIP +-5% 330	
L3016	VLQ0426J470	CHIP +-5% 47	
L3017	VLQ0163J331	CHIP +-5% 330	
L3030	VLJW3TC470KT	CHIP 47	
L4001	VLQ0319K221	CHIP 220	

#### CRYSTAL OSCILLATOR

Ref. No.	Part No.	Part Name & Description	Remark s
x3001	VSXW0087		
x301	EFOB1355E5		
X6001	VSXW0093		
X6002	LSSX0030		
X601	VSXW0096		

#### PIN HEADERS

Ref.	Part No.	Part Name & Description	Remark
No.			s
в2	VJPW0262	BOARD TO BOARD 18P	
P2	VJPW0242	CONNECTOR 13P	
	( C,D,E,F )		
P3	VJPW0255	CONNECTOR 12P	
	( A )		
	VJPW0254	CONNECTOR5P	
	(B,C,D,E,F		
	)		

#### FPC CONNECTOR

Ref. No.	Part No.	Part Name & Description	Remark s
FP1	LSJSRF28DGA	CONNECTOR 28P	
FP11	LSJSQG13DG	CONNECTOR 13P	
FP3	LSJSQG22DG	CONNECTOR 22P	
FP4	VJPW501MP06	CONNECTOR 6P	
FP6	LSJS02AC039	CONNECTOR 39P	
FP7	VJPW501MP14	CONNECTOR 14P	
FP8	VJPW501MP12	CONNECTOR 12P	
FP9	VJPW501MP20	CONNECTOR 20P	

#### FUSE & PROTECTOR

Ref.	Part No.	Part Name & Description	Remark
No.			s
F1001	LSSF008C30T	FUSE CHIP 32V 3A	$\triangle$
	OR VSFW0011	FUSE CHIP 32V 3A	$\triangle$
F1002	LSSF008F15T	FUSE CHIP 63V 1.5A	$\triangle$
	OR VSFW0010	FUSE CHIP 63V 1.5A	$\triangle$
	( C,D,E,F )		

#### TRANSFORMER

Ref. No.	Part No.	Part Name &Description	Remark s
T1001	VTPW0003A		
T1002	VTPW0004		
T4001	EQQ6QT001T		

## 12.3.2. CCD C.B.A. ■

#### INTEGRATED CIRCUITS

Ref.	Part No.	Part Name & Description	Remark
No.			s
IC601	MN371132FT-M	IC, CCD	E.S.D.

**TRANSISTORS** 

Ref. No.	Part No.	Part Name & Description	Remark s
Q601	2SC3931	CHIP	

Ref. No.	Part No.	Part Name & Description	Remark s
R601	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R602	ERJ8GEYJ470V	MGF CHIP 1/8W 47	
R661	ERJ3GEYJ101V	MGF CHIP 1/16W 100	

#### **CAPACITORS**

Ref.	Part No.	Part Name & Description	Remark
No.			s
C603	ECUV1E104ZFV	C CHIP +80%-20% 25V 0.1	
C664	ECUE1C104ZFV	C CHIP +80%-20% 16V 0.1	

#### MISCELLANEOUS

Ref.	Part No.	Part Name & Description	Remark
No.			s
E16	VMDW0429	CCD SURFACE PLATE, POLYESTER	

# 12.3.3. ELECTRONIC VIEWFINDER C.B.A. ( B,C,D,E,F ) ■

INTEGRATED CIRCUITS

Ref.	Part No.	Part Name & Description	Remark s
IC901	AN2515NS	IC, LINEAR EVF DRIVE	

#### **TRANSISTORS**

Ref. No.	Part No.	Part Name & Description	Remark s
Q901	2SD968A(S)	CHIP	Δ
Q902	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	

#### DIODES

Ref.	Part No.	Part Name & Description	Remark
No.			ø
D901	SFPL-52V	CHIP	

#### **RESISTORS**

Ref.	Part No.	Part Name & Description	Remark
No.			s
R901	ERJ3GEYJ4R7V	MGF CHIP 1/16W 4.7	
R902	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R903	VRJSD3D1302V	MGF CHIP +-0.5% 1/16W 13K	
R904	VRJSD3D1203V	MGF CHIP +-0.5% 1/16W 120K	
R905	ERJ3GEYJ514V	MGF CHIP 1/16W 510K	
R906	ERJ3GEYJ242V	MGF CHIP 1/16W 2.4K	
R907	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R908	VRJSD3D3302	MGF CHIP +-0.5% 1/16W 33K	
R911	ERJ3GEYJ3R9V	MGF CHIP 1/16W 3.9	
R912	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R913	ERJ3GEYJ471V	MGF CHIP 1/16W 470	
R914	ERJ3GEYJ272V	MGF CHIP 1/16W 2.7K	
R915	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R916	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K	
R917	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R918	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R919	ERJ3GEYJ100V	MGF CHIP 1/16W 10	
R920	ERJ6GEYJ105V	MGF CHIP 1/10W 1M	
R921	ERJ6GEYJ106V	MGF CHIP 1/10W 10M	
R922	ERJ6GEYJ106V	MGF CHIP 1/10W 10M	
R923	ERJ6GEYJ185V	MGF CHIP 1/10W 1.8M	
R925	ERJ6GEYJ684V	MGF CHIP 1/10W 680K	
R926	ERJ6GEYJ225V	MGF CHIP 1/10W 2.2M	
R927	ERJ6GEYJ185V	MGF CHIP 1/10W 1.8M	
R929	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
VR901	EVM7JSX30BE2	VARIABLE CHIP 220	
VR902	VRVW0028	VARIABLE CHIP 5M	
VR903	EVM7ESX30B26	VARIABLE CHIP 2M	

**CAPACITORS** 

Ref. No.	Part No.	Part Name & Description	Remark s
C902	ECUV1H123KBV	C CHIP 50V 0.012	
C903	VCUSQBA105KB	C CHIP 10V 1	
C904	EEAFC0J101H	ELECTROLYTIC 6.3V 100	
C905	VCUSQBA105KB	C CHIP 10V 1	
C906	ECQV1H104JM	POLTESTER +-5% 50V 0.1	
C907	ECUV1C104KBV	C CHIP 16V 0.1	
C908	EEAFC0J101H	ELECTROLYTIC 6.3V 100	
C909	ECUV1H151JCV	C CHIP +-5% 50V 150P	
C910	MCUV2A332JUM	C CHIP +-5% 100V 3300P	$\triangle$
C911	EEAFC0J470H	ELECTROLYTIC 6.3V 47	
C912	EEAFC1C470H	ELECTROLYTIC 16V 47	
C913	ECUV1C104KBV	C CHIP 16V 0.1	
C914	ECUV1C104KBV	C CHIP 16V 0.1	
C915	DE405B151K1K	CERAMIC 1KV 150P	A
C916	ECEA1HKS010	ELECTROLYTIC 50V 1	
C917	ECKD2H331KB5	CERAMIC 500V 330P	$\triangle$

#### COILS

Ref. No.	Part No.	Part Name & Description	Remark s
L901	VLQ0319K330	CHIP 33	
L902	VLQ0426J220	CHIP +-5% 22	
L903	ELH5L3105	LINEALITY	$\triangle$

#### PIN HEADERS

Ref.	Part No.	Part Name & Description	Remark
No.			s
P902	VJPW0254	CONNECTOR 5P	
P903	VJPW0004N1	CONNECTOR 4P	

#### FPC CONNECTOR

Ref.	Part No.	Part Name & Description	Remark
No.			s
FP901	VJPW501MP06	CONNECTOR 6P	

#### TRANSFORMER

Ref.	Part No.	Part Name & Description	Remark
No.			s
T901	ETF08L204A		Λ

#### MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remark s
E18	VEKW1639	CRT SOCKET UNIT	
E27	ELY05V583A1	DEFLECTION YOKE	Δ
E33	M01LSX07WB01	CRT	Δ
E34	VMZW0606	INSULATION SHEET, PLASTIC	
E37	LSEK0375	EVF CABLE W/PLUG,DC5V	

# 12.3.4. COLOR ELECTRONIC VIEWFINDER A C.B.A. (A) ■

#### INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remark s
IC901	AN2536FHQ	IC, LINEAR EVF DRIVE	

#### TRANSISTORS

Ref.	Part No.	Part Name & Description	Remark
No.			s
Q902	2SC4081T106R	CHIP	
Q903	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q904	IMX1T108	COMPLX CMP SI NPN CHIP	
	OR XN4501	COMPLX CMP SI NPN CHIP	
Q905	2SA1037K146R	CHIP	
	OR 2SB709A	CHIP	

#### DIODES

Ref.	Part No.	Part Name & Description	Remark
No.			s
D901	MA8033-H	ZENER CHIP 3.3V	

R938

R939

R942

		RESISTORS	
Ref.	Part No.	Part Name & Description	Remark
No.			s
R901	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R902	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R903	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R904	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R905	ERJ3GEYJ221V	MGF CHIP 1/16W 220	
R906	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R907	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R908	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R909	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R910	ERJ3GEYJ271V	MGF CHIP 1/16W 270	
R911	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R912	ERJ3GEYJ113V	MGF CHIP 1/16W 11K	
R913	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R915	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R916	ERJ3GEYJ122V	MGF CHIP 1/16W 1.2K	
R917	ERJ3GEYJ681V	MGF CHIP 1/16W 680	
R918	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R919	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R920	VRJSD3D2702	MGF CHIP +-0.5% 1/16W 27K	
R921	VRJSD3D4701	MGF CHIP +-0.5% 1/16W 4.7K	
R922	VRJSD3D2202	MGF CHIP +-0.5% 1/16W 22K	
R928	VRJSD3D1802	MGF CHIP +-0.5% 1/16W 18K	
R929	VRJSD3D1102	MGF CHIP +-0.5% 1/16W 11K	
R930	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R931	ERJ3GEYJ392V	MGF CHIP 1/16W 3.9K	
R935	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R936	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	

ERJ3GEY0R00V MGF CHIP 1/16W 0

ERJ3GEY0R00V MGF CHIP 1/16W 0

ERJ3GEY0R00V MGF CHIP 1/16W 0

		CAPACITORS	
Ref. No.	Part No.	Part Name & Description	Remark s
C905	ECEV1EA4R7S	ELECTROLYTIC CHIP 25V 4.7	
C908	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C910	ECUV1H152KBV	C CHIP 50V 1500P	
C911	ECUV1A105ZFV	C CHIP +80%-20% 10V 1	
C912	NMA0J226MTR	ELECTROLYTIC CHIP 6.3V 22	
C913	ECUV1C104KBV	C CHIP 16V 0.1	
C914	ECUV1C104KBV	C CHIP 16V 0.1	
C915	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C916	ECUV1H152KBV	C CHIP 50V 1500P	
C917	ECST0JY475	TANTALUM CHIP 6.3V 4.7	
C918	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C919	ECUV1C104KBV	C CHIP 16V 0.1	
C920	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C922	ECEV1CA470S	ELECTROLYTIC CHIP 16V 47	
C923	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C924	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C925	ECUV1C104KBV	C CHIP 16V 0.1	
C926	VCUSQAC225KB	C CHIP 16V 2.2	
C927	ECUV1C104KBN	C CHIP 16V 0.1	
C931	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C933	ECUV1C104KBV	C CHIP 16V 0.1	
C934	VCUSQBC105KB	C CHIP 16V 1	
C935	VCUSQBA105KB	C CHIP 10V 1	
C936	ECUV1H103KBV	C CHIP 50V 0.01	
C937	MCUV1E104KBN	C CHIP 25V 0.1	

	COILS			
Ref.	Part No.	Part Name & Description	Remark	
No.			s	
L902	VLQ0426J150	CHIP +-5% 15		
L903	VLQ0319K100	CHIP 10		
L905	VLQ0426J150	CHIP +-5% 15		

		PIN HEADERS	
Ref.	Part No.	Part Name & Description	Remark
P901	VJPW0255	CONNECTOR 12P	

FPC CONNECTOR	
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Ref.	Part No.	Part Name & Description	Remark
	VJPW501MP06	CONNECTRO 6P	
FP902	VJPW501MP16	CONNECTOR 16P	

#### MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remark s
E36	VEKW1781	EVF CABLE W/PLUG,DC15V	

# 12.3.5. COLOR ELECTRONIC VIEWFINDER B C.B.A. ( A ) ■

#### TRANSISTORS

Ref.	Part No.	Part Name & Description	Remark
No.			s
Q901	2SK1299STL	F.E.T.	$\triangle$

#### **CAPACITORS**

Ref. No.	Part No.	Part Name & Description	Remark s
C903	VCUSQFA106KB	C CHIP 10V 10	

#### COILS

Ref. No.	Part No.	Part Name & Description	Remark s
L901	SLF6028T101M	CHOKE +-20% 100	Δ

#### LAMP

Ref.	Part No.	Part Name & Description	Remark
No.			s
PL901	VLLW0010	LCD LAMP	Δ
	OR VLLW0011	LCD LAMP	$\triangle$

#### TRANSFORMER

Ref. No.	Part No.	Part Name & Description	Remark s
T901	ETJ09K30AM		$\triangle$
	OR VLTW0044		Δ

# 12.3.6. LIQUID CRYSTAL DISPLAY C.B.A. ( C,D,F ) ■

#### INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remark s
IC1201	BA9746FV-E2	IC, LINEAR POWER CONTROL	
IC9001	AN2545FHQ	IC, LINEAR RGB SIGNAL PROCESS	
IC9002	TA75S558F85L	IC, LINEAR OP.AMP.	

#### TRANSISTORS

Ref.	Part No.	Part Name & Description	Remark
No.			s
Q1202	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1203	DTA124EU	CHIP	
	OR UN5112	CHIP	
Q1204	DTA124EU	CHIP	
	OR UN5112	CHIP	
Q1205	DTA124EU	CHIP	
	OR UN5112	CHIP	
Q1206	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1207	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q1208	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1209	IMX1T108	COMPLX CMP SI NPN CHIP	
	OR XN4501	COMPLX CMP SI NPN CHIP	
Q1210	2SB1073	CHIP	
	OR 2SB1386T100Q	CHIP	
	OR 2SB1386T100R	CHIP	
Q1211	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1212	2SC4081T106R	CHIP	

Ref. No.	Part No.	Part Name & Description	Remark s
	OR 2SD1819A	CHIP	
Q1213	DTC124EU	CHIP	
	OR UN5212	CHIP	
Q1214	2SK1958	F.E.T. CHIP	
Q1215	DTC124EU	CHIP	
	OR UN5212	CHIP	
Q1216	DTC124EU	CHIP	
	OR UN5212	CHIP	
Q1217	CPH3215-TL	CHIP	
Q1218	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q1219	IMX1T108	COMPLX CMP SI NPN CHIP	
	OR XN4501	COMPLX CMP SI NPN CHIP	
Q1220	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q1221	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1222	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q9004	DTC124EU	CHIP	
	OR UN5212	CHIP	
	( D,F )		
Q9005	UN5114	CHIP	
	( D,F )		
Q9051	2SD1119	CHIP	⚠
	OR 2SD2150T100R	CHIP	Δ
Q9052	2SD1119	CHIP	Δ
	OR 2SD2150T100R	CHIP	Δ

#### DIODES

Ref.	Part No.	Part Name & Description	Remark
No.		_	s
D1201	DAN202UT	CHIP	
	OR MA142WK	CHIP	
D1203	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1204	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1205	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1206	MA8068-M	ZENER CHIP 6.8V	
D9001	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D9002	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D9003	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	

#### RESISTORS

		REGIOTORO	
Ref.	Part No.	Part Name & Description	Remark
No.			s
R1203	ERJ3GEYJ273V	MGF CHIP 1/16W 27K	
R1204	ERJ3GEYJ683V	MGF CHIP 1/16W 68K	
R1205	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R1206	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R1207	ERJ3GEYJ183V	MGF CHIP 1/16W 18K	
R1208	ERJ3GEYJ824V	MGF CHIP 1/16W 820K	
R1209	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R1210	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R1211	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R1212	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R1213	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R1214	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R1215	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R1216	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R1217	VRJSD3D1002	MGF CHIP +-0.5% 1/16W 10K	
R1218	VRJSD3D1002	MGFCHIP +-0.5% 1/16W 10K	
R1219	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	

		1 V-D300 / VINI-D100 / 1 V-E330 / 1 V-E000	
Ref.	Part No.	Part Name & Description	Remark
No.			s
		MGF CHIP 1/16W 4.7K	
R1221	VRJSD3D1002	MGF CHIP +-0.5% 1/16W 10K	
R1222	<del> </del>	MGF CHIP +-0.5% 1/16W 33K	
R1223	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R1224	ERJ3GEYJ391V	MGF CHIP 1/16W 390	
R1225	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R1226	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R1227	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R1228	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R1229	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R1230	ERJ3GEYJ105V	MGF CHIP 1/16W 1M	
R1231	VRJSD3D2702	MGF CHIP +-0.5% 1/16W 27K	
R1232		MGF CHIP +-0.5% 1/16W 3K	
R1233		MGF CHIP 1/16W 0	•
	<del> </del>	MGF CHIP 1/16W 1.5K	_
			•
		MGF CHIP 1/16W 0	
R1237		MGF CHIP 1/16W 330	
R1238	VRJSD3D3301	MGF CHIP +-0.5% 1/16W 3.3K	
		MGF CHIP 1/16W 10	
R1240	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
	t	MGF CHIP 1/16W 22K	
R1242	VRJSD3D4702	MGF CHIP +-0.5% 1/16W 47K	
R1243	VRJSD3D3302	MGF CHIP +-0.5% 1/16W 33K	
R1244	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R1245	ERJ3GEYJ272V	MGF CHIP 1/16W 2.7K	
R1246	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
		MGF CHIP 1/16W 10K	
R1248	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
		MGF CHIP 1/16W 560	
		MGF CHIP 1/16W 5.6K	
R9001		MGF CHIP 1/16W 4.7K	
R9003		MGF CHIP 1/16W 4.7K	
R9004		MGF CHIP 1/16W 1K	
R9005		MGF CHIP 1/16W 1K	
R9006	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R9007	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R9008	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R9009	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R9010	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9011	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9012	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9013	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R9014	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R9015		MGF CHIP 1/16W 12K	
R9016		MGF CHIP 1/16W 10K	
			•
R9017		MGF CHIP 1/16W 0	_
R9018		MGF CHIP 1/16W 0	•
R9019		MGF CHIP 1/16W 0	•
R9020		MGF CHIP 1/16W 100	-
R9021		MGF CHIP 1/16W 100	
R9022	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9023	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R9024	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R9025	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R9026	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R9027	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R9028		MGF CHIP 1/16W 22K	
R9029		MGF CHIP 1/16W 47K	
R9030		MGF CHIP 1/16W 10K	
R9031		MGF CHIP 1/16W 10K	<u> </u>
R9032	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R9032	ERJ3GEYJ333V	MGF CHIP 1/16W 100K	<b> </b>
2000		MOI CHIE I/IOW JJK	<del>                                     </del>
DOCE 1	( D,F )	MOE CHID 1/16W 0 0"	-
R9051		MGF CHIP 1/16W 2.2K	-
R9052	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	-
	( C )		
VR9001	VRVW0024	VARIABLE 10K	
		CAPACITORS	

#### CAPACITORS

Ref. No.	Part No.	Part Name & Description	Remark s
C1201	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C1202	ECUV1C104KBV	C CHIP 16V 0.1	
C1203	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	

VM-D100 / PV-L550 / PV-L600 / PV-L650 / VM-L450			
Ref. No.	Part No.	Part Name & Description	Remark s
C1204	ECUV1A105KBN	C CHIP 10V 1	
C1205	ECUV1C104KBN	C CHIP 16V 0.1	
C1206	ECUV1H102KBV	C CHIP 50V 1000P	
C1207	ECST0JY106	TANTALUM CHIP 6.3V 10	
C1208	ECUV1H102KBV	C CHIP 50V 1000P	
C1209	ECUV1C224KBN	C CHIP 16V 0.22	
C1210	ECUV1A105KBN	C CHIP 10V 1	
C1211	ECUV0J225KBN	C CHIP 6.3V 2.2	
C1212	VCUSJEA224KB	C CHIP 10V 0.22	
C1213	ECUV1A105ZFV	C CHIP +80%-20% 10V 1	
C1214	ECUV1H101JCV	C CHIP +-5% 50V 100P	
C1216	ECUV1H472KBV	C CHIP 50V 4700P	
C1217	ECUE1H121JCV	C CHIP +-5% 50V 120P	
C1218	VCUSQAC225KB	C CHIP 16V 2.2	
C1219	VCUSQAC105KB	C CHIP 16V 1	
C1220	VCUSQBC105KB	C CHIP 16V 1	
C1221	ECUV1A105KBN	C CHIP 10V 1	
C1223	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	1
C1224	ECUV1E105KBM	C CHIP 25V 1	†
C1225	VCUSQAE105ZF	C CHIP +80%-20% 25V 1	1
C1226	ECUV1C104KBN	C CHIP 16V 0.1	1
C1227	ECUV1C104KBN	C CHIP 16V 0.1	
C1228	ECUV1E103KBV	C CHIP 25V 0.01	
C9003	ECST0JY475	TANTALUM CHIP 6.3V 4.7	
C9005	ECST0JY106	TANTALUM CHIP 6.3V 10	
C9007	ECUV1A105ZFV	C CHIP +80%-20% 10V 1	
C9008	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C9009	NMA0J226MTR	ELECTROLYTIC CHIP 6.3V 22	
C9010	ECUV1H681KBV	C CHIP 50V 680P	
C9011	ECUV1C104KBV	C CHIP 16V 0.1	
C9012	ECUV1C104KBV	C CHIP 16V 0.1	
C9013	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9014	ECUV1H152KBV	C CHIP 50V 1500P	
C9015	ECST0JY475	TANTALUM CHIP 6.3V 4.7	
C9016	NMA0J226MTR	ELECTROLYTIC CHIP 6.3V 22	
C9017	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9018	ECUV1C104KBV	C CHIP 16V 0.1	+
C9019	ECST1CX106	TANTALUM CHIP 16V 10	+
C9019	VCUSJBJ225KB	C CHIP 6.3V 2.2	+
C9020	VCUSJBJ225KB	C CHIP 6.3V 2.2	+
C9021	VCUSJBJ225KB	C CHIP 6.3V 2.2	+
C9022	ECST1DX106R	TANTALUM CHIP 20V 10	+
C9023	VCUSJBJ225KB		+
C9024	ECUV1H151JCV	C CHIP 6.3V 2.2 C CHIP +-5% 50V 150P	+
			+
C9026	VCUSJBJ225KB ECUV1C104KBV	C CHIP 6.3V 2.2	+
C9027	+	C CHIP 16V 1	+
C9028	VCUSQBC105KB	C CHIP 16V 1	+
C9029	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	+
C9030	ECSTOJY106	TANTALUM CHIP 6.3V 10	+
C9031	ECST0JY106	TANTALUM CHIP 6.3V 10	+
C9032	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	+
C9051	EEFCD0J220R	TANTALUM CHIP 6.3V 22	+
C9052	ECHU1H183JB5	C CHIP +-5% 50V 0.018	+
C9053	LSCUCAD150J	C CHIP +-5% 2KV 15P	+
C9054	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	+
C9055	LSCUCAD150J	C CHIP +-5% 2KV 15P	

#### COILS

Ref. No.	Part No.	Part Name & Description	Remark s
L1201	VLQ0319K100	CHIP 10	
L1202	NP05DB100M	+-20% 10	
L1203	VLJW3TC100KT	CHIP 10	
L1204	VLQ0426J470	CHIP +-5% 47	
L1205	VLQ0426J470	CHIP +-5% 47	
L1206	VLQ0426J470	CHIP +-5% 47	
L1207	VLQ0426J150	CHIP +-5% 15	
L9001	VLQ0426J150	CHIP +-5% 15	
L9002	VLQ0426J150	CHIP +-5% 15	
L9003	VLQ0163J150	CHIP +-5% 15	
L9004	VLQ0426J150	CHIP +-5% 15	
L9005	VLQ0426J150	CHIP +-5% 15	
L9006	VLQ0426J150	CHIP +-5% 15	
L9007	VLQ0426J150	CHIP +-5% 15	

Ref. No.	Part No.	Part Name & Description	Remark s
L9051	SLF6028T680M	CHOKE +-20% 68	Δ

#### FPC CONNECTOR

Ref.	Part No.	Part Name & Description	Remark
No.			s
FP1201	LSJS02AC021	CONNECTOR 21P	
FP9001	LSJSQG24DG	CONNECTOR 24P	

#### TRANSFORMER

Ref. No.	Part No.	Part Name & Description	Remark s
T1202	LSTP0094		
T9051	ETJ11K95AM		Δ

#### MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remark s
E44	VMZW0668	INSULATION SHEET, PLASTIC	

# 12.3.7. LIQUID CRYSTAL DISPLAY C.B.A. (E)■

#### INTEGRATED CIRCUITS

Ref. No.	Part No.	Part Name & Description	Remark s
IC1201	BA9746FV-E2	IC, LINEAR POWER CONTROL	
IC9001	AN2545FHQ	IC, LINEAR RGB SIGNAL PROCESS	
IC9002	TA75S558F85L	IC, LINEAR OP.AMP.	

#### TRANSISTORS

Ref. No.	Part No.	Part Name & Description	Remark s
Q1202	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1203	DTA124EU	CHIP	
	OR UN5112	CHIP	
Q1204	DTA124EU	CHIP	
	OR UN5112	CHIP	
Q1205	DTA124EU	CHIP	
	OR UN5112	CHIP	
Q1206	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1207	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q1208	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1209	IMX1T108	COMPLX CMP SI NPNCHIP	
	OR XN4501	COMPLX CMP SI NPN CHIP	
Q1210	2SB1073	CHIP	
	OR 2SB1386T100Q	CHIP	
	OR 2SB1386T100R	CHIP	
Q1211	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1212	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1213	DTC124EU	CHIP	
	OR UN5212	CHIP	
Q1214	2SK1958	F.E.T. CHIP	
Q1215	DTC124EU	CHIP	
	OR UN5212	CHIP	
Q1216	DTC124EU	CHIP	
	OR UN5212	CHIP	
Q1217	CPH3215-TL	CHIP	
Q1218	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q1219	IMX1T108	COMPLX CMP SI NPN CHIP	
	OR XN4501	COMPLX CMP SI NPN CHIP	
Q1220	2SA1576A106R	CHIP	
	OR 2SB1218A	CHIP	
Q1221	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	
Q1222	2SC4081T106R	CHIP	
	OR 2SD1819A	CHIP	

Ref. No.	Part No.	Part Name & Description	Remark s
Q9001	DTC124EU	CHIP	
	OR UN5212	CHIP	
Q9002	UN5114	CHIP	
Q9101	2SD1119	CHIP	Δ
	OR 2SD2150T100R	CHIP	Δ
Q9102	2SD1119	CHIP	$\triangle$
	OR 2SD2150T100R	CHIP	Δ

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Ref. No.	Part No.	Part Name & Description	Remark s
D1201	DAN202UT	CHIP	
	OR MA142WK	CHIP	
D1203	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1204	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1205	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D1206	MA8068-M	ZENER CHIP 6.8V	
D9001	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D9002	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	
D9003	MA111	CHIP	
	OR 1SS355TE- 17	CHIP	

#### **RESISTORS**

RESISTORS				
Ref.	Part No.	Part Name & Description	Remark	
No.		WOT OUT 1/16T 07T	s	
R1203		MGF CHIP 1/16W 27K		
R1204	1	MGF CHIP 1/16W 68K		
R1205		MGF CHIP 1/16W 4.7K		
R1206	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K		
R1207		MGF CHIP 1/16W 18K		
R1208		MGF CHIP 1/16W 820K		
R1209		MGF CHIP 1/16W 10K		
R1210		MGF CHIP 1/16W 10K		
R1211	ERJ3GEYJ103V	MGF CHIP 1/16W 10K		
R1212	ERJ3GEYJ473V	MGF CHIP 1/16W 47K		
R1213	ERJ3GEYJ473V	MGF CHIP 1/16W 47K		
R1214	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R1215	ERJ3GEYJ473V	MGF CHIP 1/16W 47K		
R1216	ERJ3GEYJ473V	MGF CHIP 1/16W 47K		
R1217	VRJSD3D1002	MGF CHIP +-0.5% 1/16W 10K		
R1218	VRJSD3D1002	MGF CHIP +-0.5% 1/16W 10K		
R1219	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K		
R1220	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K		
R1221	VRJSD3D1002	MGF CHIP +-0.5% 1/16W 10K		
R1222	VRJSD3D3302	MGF CHIP +-0.5% 1/16W 33K		
R1223	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R1224	ERJ3GEYJ391V	MGF CHIP 1/16W 390		
R1225	ERJ3GEYJ101V	MGF CHIP 1/16W 100		
R1226	ERJ3GEYJ101V	MGF CHIP 1/16W 100		
R1227	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R1228	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K		
R1229	ERJ3GEYJ223V	MGF CHIP 1/16W 22K		
R1230	ERJ3GEYJ105V	MGF CHIP 1/16W 1M		
R1231	VRJSD3D2702	MGF CHIP +-0.5% 1/16W 27K		
R1232	VRJSD3D3001	MGF CHIP +-0.5% 1/16W 3K		
R1233	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•	
R1234	ERJ3GEYJ152V	MGF CHIP 1/16W 1.5K		
R1235	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•	
R1237	ERJ3GEYJ331V	MGF CHIP 1/16W 330		
R1238	VRJSD3D3301	MGF CHIP +-0.5% 1/16W 3.3K		
R1239	ERJ3GEYJ100V	MGF CHIP 1/16W 10		
R1240	ERJ3GEYJ103V	MGF CHIP 1/16W 10K		
R1241	+	MGF CHIP 1/16W 22K		
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		FV-D300 / VIVI-D100 / FV-L330 / FV-L00	0 / 1 V-L030 /
Ref. No.	Part No.	Part Name & Description	Remark s
R1242	VRJSD3D4702	MGF CHIP +-0.5% 1/16W 47K	
R1243	VRJSD3D3302	MGF CHIP +-0.5% 1/16W 33K	
R1244	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R1245	ERJ3GEYJ272V	MGF CHIP 1/16W 2.7K	
R1246	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R1247	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R1248	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R1249	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R1250	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
R9001	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R9003	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
R9004	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R9005	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R9006	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R9007	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R9008	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R9009	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R9011	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9012	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9013	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
R9014	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
R9015	ERJ3GEYJ123X	MGF CHIP 1/16W 12K	
R9016	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R9017	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R9018	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R9019	ERJ3GEY0R00V	MGF CHIP 1/16W 0	•
R9020	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9021	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9022	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R9023	ERJ3GEYJ303V	MGF CHIP 1/16W 30K	
R9024	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R9025	ERJ3GEYJ682V	MGF CHIP 1/16W 6.8K	
R9026	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R9027	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R9028	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R9029	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R9030	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R9031	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
	1		

# VARIABLE 10K CAPACITORS

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R9032 ERJ3GEYJ104V MGF CHIP 1/16W 100K

ERJ3GEYJ333V MGF CHIP 1/16W 33K

ERJ3GEYJ101V MGF CHIP 1/16W 100
ERJ3GEY0R00V MGF CHIP 1/16W 0

ERJ3GEYJ102V MGF CHIP 1/16W 1K

ERJ8GEY0R00V MGF CHIP 1/8W 0

R9033

R9053

R9054 R9101

R9102

VR9001 VRVW0024

Ref. No.	Part No.	Part Name & Description	Remark s
C1201	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C1202	ECUV1C104KBV	C CHIP 16V 0.1	
C1203	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C1204	ECUV1A105KBN	C CHIP 10V 1	
C1205	ECUV1C104KBN	C CHIP 16V 0.1	
C1206	ECUV1H102KBV	C CHIP 50V 1000P	
C1207	ECST0JY106	TANTALUM CHIP 6.3V 10	
C1208	ECUV1H102KBV	C CHIP 50V 1000P	
C1209	ECUV1C224KBN	C CHIP 16V 0.22	
C1210	ECUV1A105KBN	C CHIP 10V 1	
C1211	ECUV0J225KBN	C CHIP 6.3V 2.2	
C1212	VCUSJEA224KB	C CHIP 10V 0.22	
C1213	ECUV1A105ZFV	C CHIP +80%-20% 10V 1	
C1214	ECUV1H101JCV	C CHIP +-5% 50V 100P	
C1216	ECUV1H472KBV	C CHIP 50V 4700P	
C1217	ECUE1H121JCV	C CHIP +-5% 50V 120P	
C1218	VCUSQAC225KB	C CHIP 16V 2.2	
C1219	VCUSQAC105KB	C CHIP 16V 1	
C1220	VCUSQBC105KB	C CHIP 16V 1	
C1221	ECUV1A105KBN	C CHIP 10V 1	
C1223	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C1224	ECUV1E105KBM	C CHIP 25V 1	
C1225	VCUSQAE105ZF	C CHIP +80%-20% 25V 1	
C1226	ECUV1C104KBN	C CHIP 16V 0.1	
C1227	ECUV1C104KBN	C CHIP 16V 0.1	

2		71 7 2000 7 7 111 2 400	
Ref.	Part No.	Part Name & Description	Remark
No.			s
C1228	ECUV1E103KBV	C CHIP 25V 0.01	
C9003	ECST0JX226	TANTALUM CHIP 6.3V 22	
C9005	ECST0JY106	TANTALUM CHIP 6.3V 10	
C9007	ECUV1A105ZFV	C CHIP +80%-20% 10V 1	
C9008	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C9009	NMA0J226MTR	ELECTROLYTIC CHIP 6.3V 22	
C9010	ECUV1H681KBV	C CHIP 50V 680P	
C9011	ECUV1C104KBV	C CHIP 16V 0.1	
C9012	ECUV1C104KBV	C CHIP 16V 0.1	
C9013	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9014	ECUV1H152KBV	C CHIP 50V 1500P	
C9015	ECST0JY475	TANTALUM CHIP 6.3V 4.7	
C9016	NMA0J226MTR	ELECTROLYTIC CHIP 6.3V 22	
C9017	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9018	ECUV1C104KBV	C CHIP 16V 0.1	
C9019	ECST1CX106	TANTALUM CHIP 16V 10	
C9020	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9021	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9022	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9023	ECST1DX106R	TANTALUM CHIP 20V 10	
C9024	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9025	ECUV1H151JCV	C CHIP +-5% 50V 150P	
C9026	VCUSJBJ225KB	C CHIP 6.3V 2.2	
C9027	ECUV1C104KBV	C CHIP 16V 0.1	
C9028	VCUSQBC105KB	C CHIP 16V 1	
C9029	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C9030	ECST0JY106	TANTALUM CHIP 6.3V 10	
C9031	ECST0JY106	TANTALUM CHIP 6.3V 10	
C9032	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C9044	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C9101	EEFCD0J220R	TANTALUM CHIP 6.3V 22	
C9102	ECHU1H393JB5	C CHIP +-5% 50V 0.039	
C9103	VCCW0008	CCHIP	

COILS

Ref.	Part No.	Part Name & Description	Remark
No.			s
L1201	VLQ0319K100	CHIP 10	
L1202	NP05DB100M	+-20% 10	
L1203	VLJW3TC100KT	CHIP 10	
L1204	VLQ0426J470	CHIP +-5% 47	
L1205	VLQ0426J470	CHIP +-5% 47	
L1206	VLQ0426J470	CHIP +-5% 47	
L1207	VLQ0426J150	CHIP +-5% 15	
L9001	VLQ0426J150	CHIP +-5% 15	
L9002	VLQ0464K150	CHIP 15	
L9003	VLQ0163J150	CHIP +-5% 15	
L9004	VLQ0464K150	CHIP 15	
L9005	VLQ0426J150	CHIP +-5% 15	
L9006	VLQ0464K150	CHIP 15	
L9007	VLQ0426J150	CHIP +-5% 15	
L9101	SLF6028T680M	CHOKE +-20% 68	$\triangle$

### FPC CONNECTOR

Ref.	Part No.	Part Name & Description	Remark
No.			s
FP1201	LSJS02AC021	CONNECTOR 21P	
FP9001	LSJSQG24DG	CONNECTOR 24P	

### TRANSFORMER

Ref. No.	Part No.	Part Name & Description	Remark s
T1202	LSTP0094		
T9101	LSLT0030		Δ

### MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remark s
E44	VMZW0650	INSULATION SHEET, PLASTIC	

# 12.3.8. RELAY C.B.A. ( C,D,E,F ) ■

PIN HEADERS

Ref.	Part No.	Part Name & Description	Remark
No.			s
P9001	VJPW0242	CONNECTOR 13P	

FPC CONNECTOR

Ref.	Part No.	Part Name & Description	Remark
No.			s
FP9002	LSJSQG18DG	CONNECTOR 18P	

# 12.3.9. ELECTRICAL PARTS LOCATED ON CHASSIS

Ref. No.	Part No.	Part Name & Description	Remark s
IC3501	AN3365SB-E1	IC, LINEAR HEAD AMP	
E6	LSEQ0540	MECHANISM FLEXIBLE PRINTED CIRCUIT UNIT	
E22	VJBW1626F	CYLINDER CABLE W/OUT PLUG,DC5V	
E41	VULS0001	LAMP KIT	Δ
	( A,C,D,E )		
E64	VEKW1782	LCD CABLE W/PLUG,DC5V	
	( C,D,E,F )		

# 12.3.10. SUMMARY OF "E" ITEM NUMBERS REFER TO ELECTRICAL PARTS LIST FOR MODEL INFORMATION

Ref. No.	Part No.	Part Name & Description	Remark s
E1	LSEP8024E1	MAIN C.B.A.	RTL
E1	LSEP8024D1	MAIN C.B.A.	RTL
E1	LSEP8024A1	MAIN C.B.A.	RTL
E1	LSEP8024F1	MAIN C.B.A.	RTL
E1	LSEP8024C1	MAIN C.B.A.	RTL
E1	LSEP8024B1	MAIN C.B.A.	RTL
E2	LSEQ0547	CCD C.B.A.	RTL
E3	LSEQ0558	ELECTRONIC VIEWFINDER C.B.A.	RTL
E4	LSEP8035A1	COLOR ELECTRONIC VIEWFINDER A C.B.A.	RTL
E5	VEPW1671A1	COLOR ELECTRONIC VIEWFINDER B C.B.A.	RTL
E6	LSEQ0540	MECHANISM FLEXIBLE PRINTED CIRCUIT UNIT	
E16	VMDW0429	CCD SURFACE PLATE, POLYESTER	
E18	VEKW1639	CRT SOCKET UNIT	
E22	VJBW1626F	CYLINDER CABLE W/OUT PLUG,DC5V	
E27	ELY05V583A1	DEFLECTION YOKE	Δ
E33	M01LSX07WB01	CRT	Δ
E34	VMZW0606	INSULATION SHEET, PLASTIC	
E36	VEKW1781	EVF CABLE W/PLUG, DC15V	
E37	LSEK0375	EVF CABLE W/PLUG,DC5V	
E41	VULS0001	LAMP KIT	Δ
E44	VMZW0668	INSULATION SHEET, PLASTIC	
E44	VMZW0650	INSULATION SHEET, PLASTIC	
E52	LSEP8030A1	LIQUID CRYSTAL DISPLAY C.B.A.	RTL
E52	LSEP8030B1	LIQUID CRYSTAL DISPLAY C.B.A.	RTL
E52	LSEP8031A1	LIQUID CRYSTAL DISPLAY C.B.A.	RTL
E53	LSEP8033A1	RELAY C.B.A.	
E64	VEKW1782	LCD CABLE W/PLUG,DC5V	

### **⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Note: AC Adaptor used with these Camcorder is PV-A17.

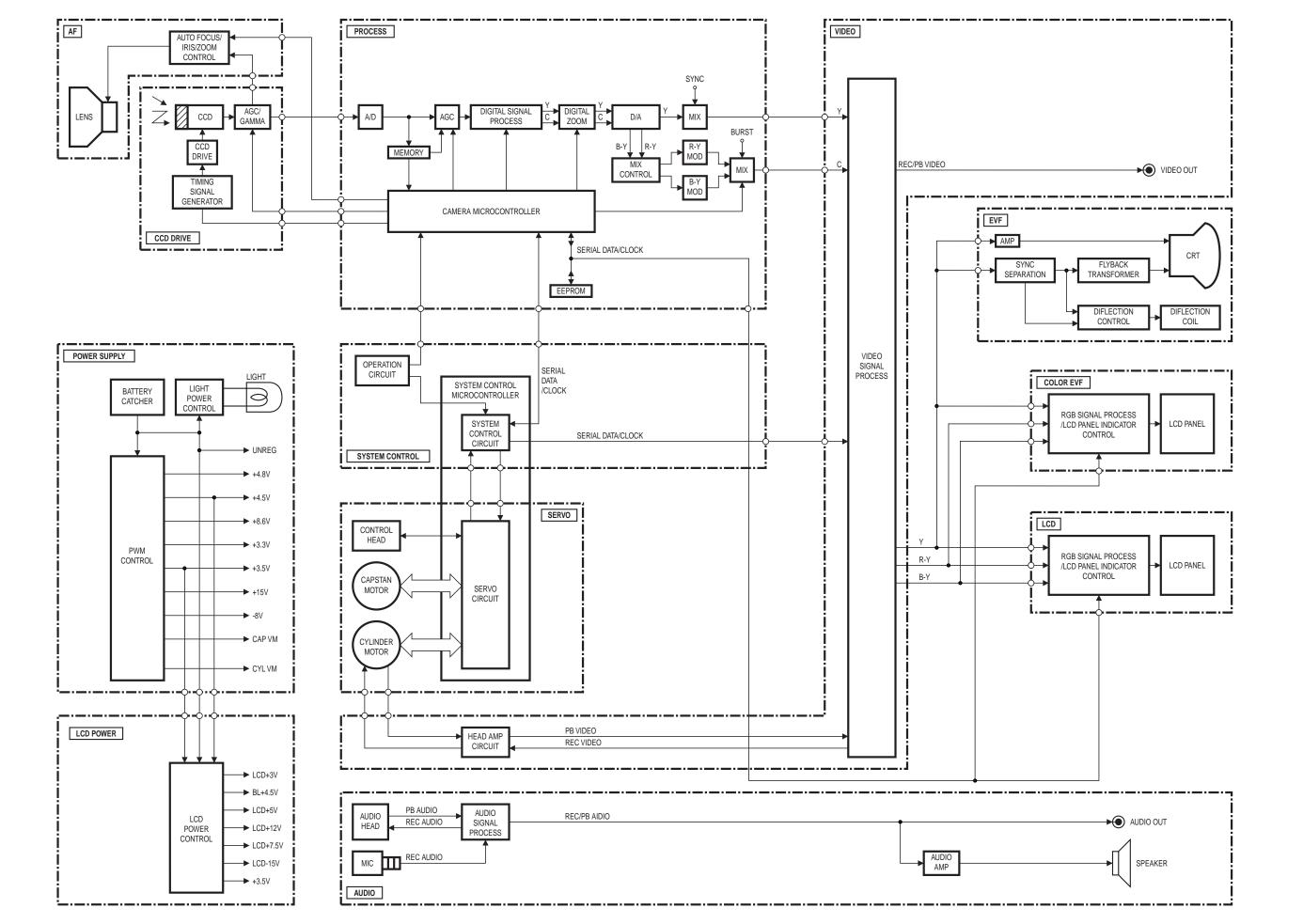
The Service Manual for AC Adaptor (PV-A17) is a separate volume.

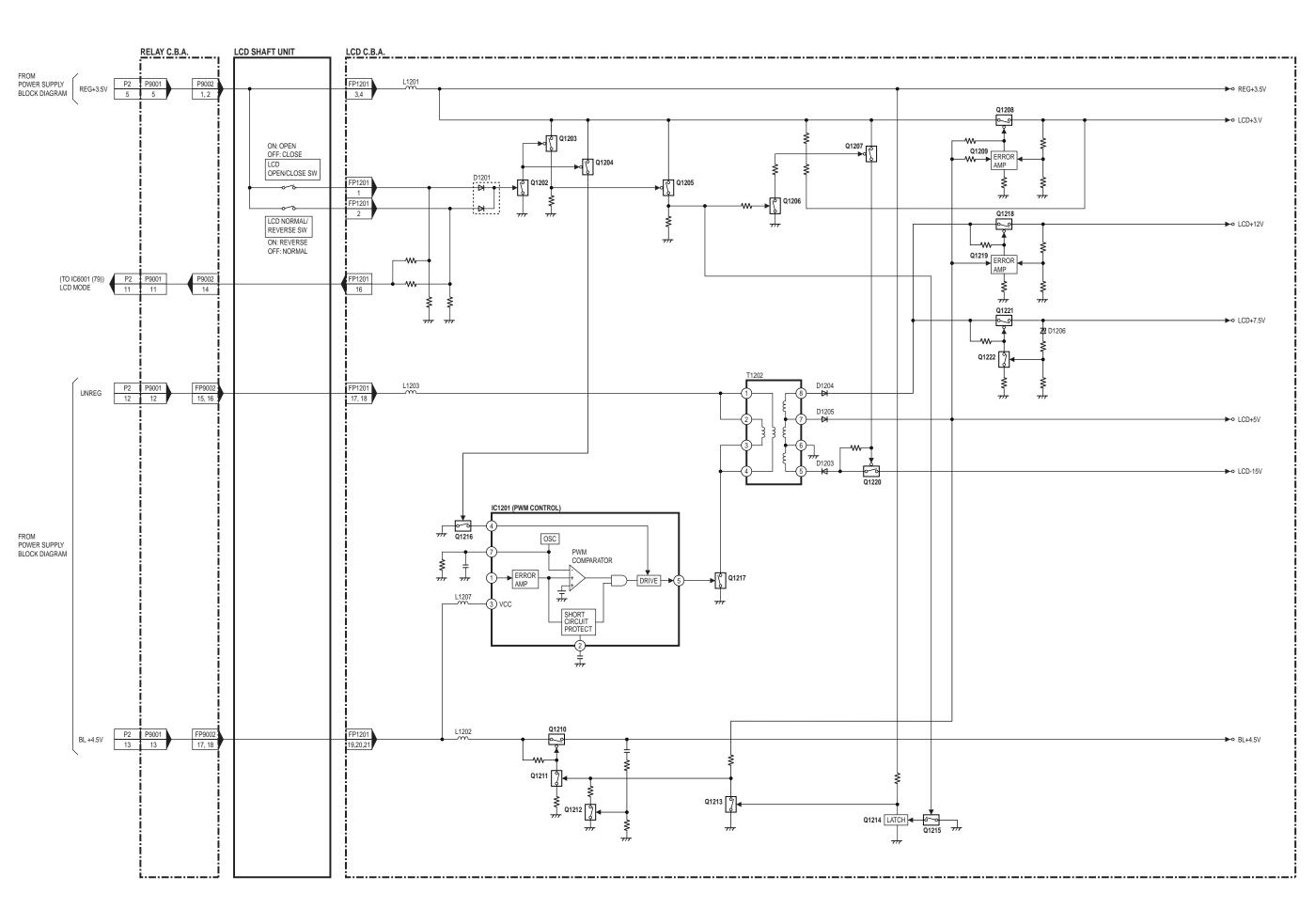
Please refer to following manual for PV-A17.

Order number for AC Adaptor (PV-A17): MKW9512M302.

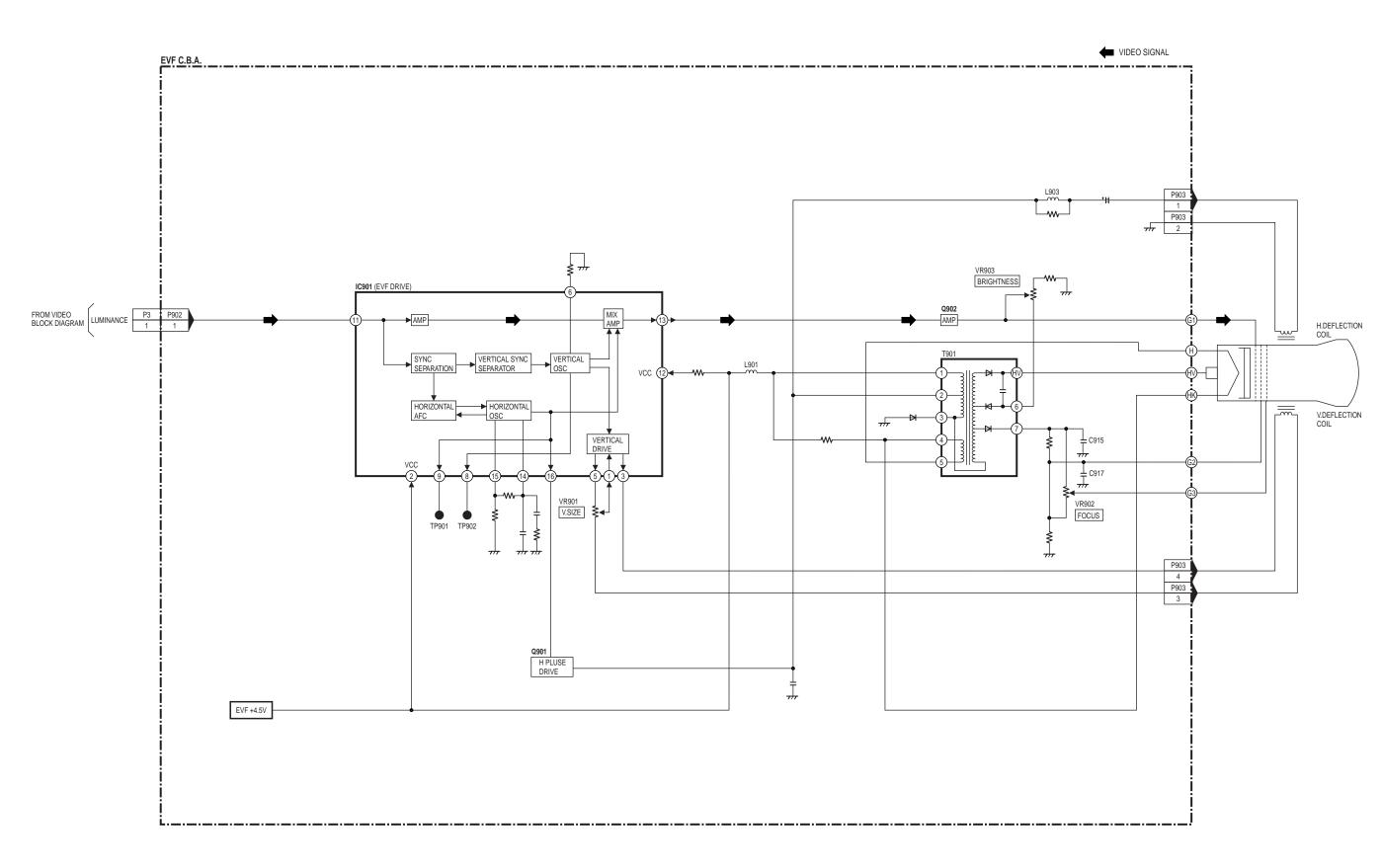
# **CONTENTS**

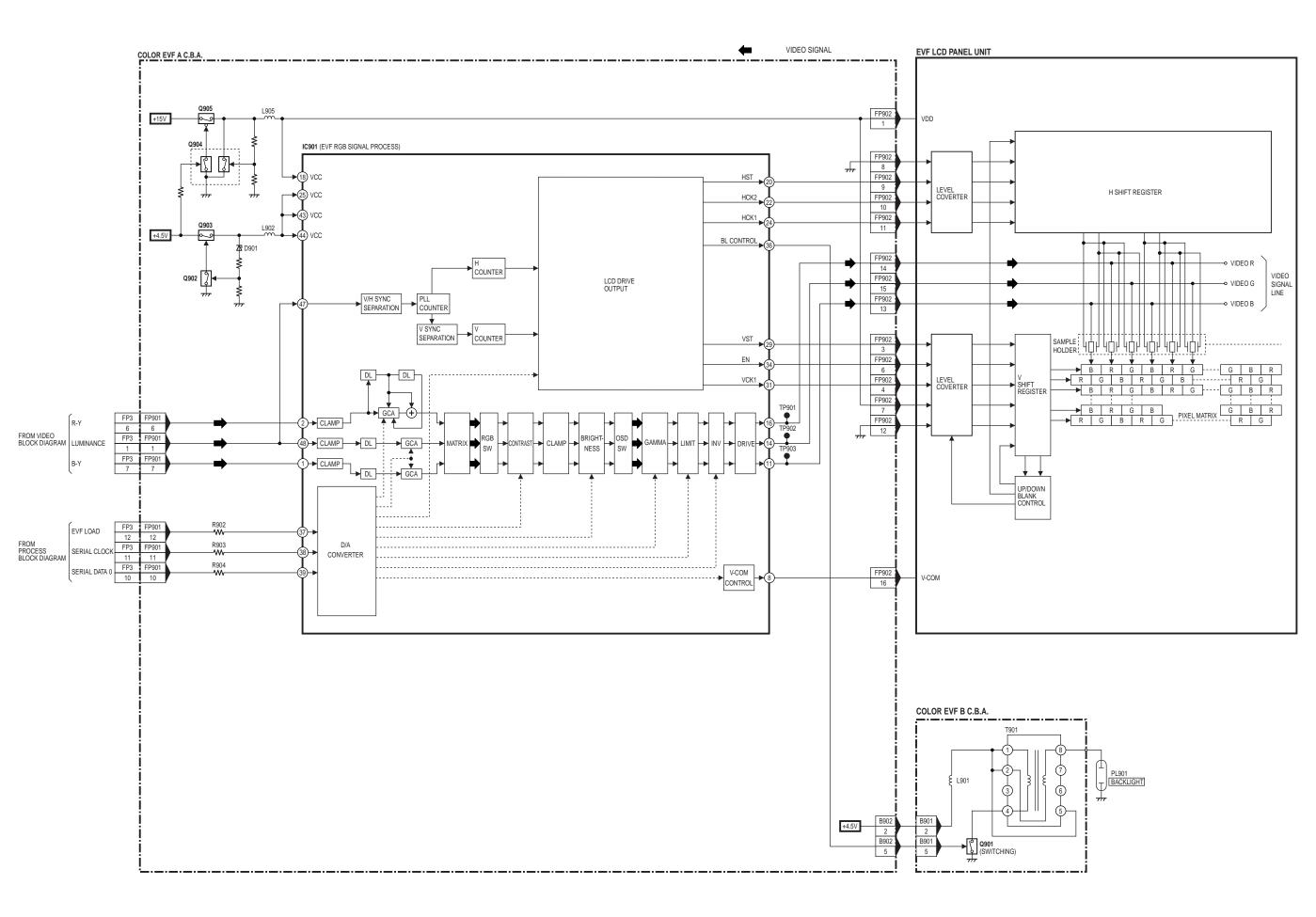
Page	Pa	age
1 SAFETY PRECAUTIONS3	8.17. INTERCONNECTION SCHEMATIC DIAGRAM	99
2 PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO	8.18. SIGNAL WAVEFORM ······	100
ELECTROSTATICALLY SENSITIVE (ES) DEVICES4	8.19. VOLTAGE CHART ······	101
3 X-RADIATION (Model: B, C, D, E, F)4	9 CIRCUIT BOARD LAYOUT	105
4 OPERATION GUIDE5	9.1. MAIN C.B.A	105
5 SERVICE NOTES (PLEASE READ)10	9.2. LCD C.B.A. (C, D, F) / RELAY C.B.A. (C, D, E, F)	107
5.1. SERVICE NOTES10	9.3. LCD C.B.A. (E)	108
5.2. IC, TRANSISTOR AND CHIP PART INFORMATION ····· 25	9.4. EVF C.B.A. (B, C, D, E, F) / COLOR EVF C.B.A. (A) /	
6 DISASSEMBLY/ASSEMBLY PROCEDURES26	MECHANISM FPC UNIT ······	109
6.1. CABINET SECTION26	9.5. CCD C.B.A. / HEAD AMP C.B.A	110
6.2. MECHANISM SECTION41	10 BLOCK DIAGRAMS	111
7 ADJUSTMENT PROCEDURES61	10.1. OVERALL BLOCK DIAGRAM	111
7.1. SERVICE FIXTURES & TOOLS61	10.2. CCD DRIVE BLOCK DIAGRAM	112
7.2. MECHANICAL ADJUSTMENT63	10.3. PROCESS BLOCK DIAGRAM	113
7.3. ELECTRICAL ADJUSTMENT67	10.4. VIDEO BLOCK DIAGRAM	114
7.4. TEST POINTS AND CONTROL LOCATION75	10.5. AUDIO BLOCK DIAGRAM ·····	115
8 SCHEMATIC DIAGRAM77	10.6. SYSTEM CONTROL BLOCK DIAGRAM	116
8.1. SCHEMATIC DIAGRAM & CIRCUIT BOARD LAYOUT	10.7. SERVO BLOCK DIAGRAM ·····	117
NOTE77	10.8. AF BLOCK DIAGRAM ······	118
8.2. MAIN I (SYSTEM CONTROL/SERVO) SCHEMATIC	10.9. POWER SUPPLY BLOCK DIAGRAM	119
DIAGRAM78	10.10. LCD POWER BLOCK DIAGRAM ······	120
8.3. MAIN II (CYLINDER/CAPSTAN DRIVE) SCHEMATIC	10.11. LCD BLOCK DIAGRAM	121
DIAGRAM79	10.12. EVF BLOCK DIAGRAM	
8.4. MAIN III (CAMERA I) SCHEMATIC DIAGRAM81	10.13. COLOR EVF BLOCK DIAGRAM	123
8.5. MAIN IV (CAMERA II) / CCD SCHEMATIC DIAGRAM 82	11 EXPLODED VIEWS	
8.6. MAIN V (VIDEO) SCHEMATIC DIAGRAM84	11.1. VCR MECHANISM SECTION	
8.7. MAIN VI (AUDIO) SCHEMATIC DIAGRAM86	11.2. CAMERA AND FRAME SECTION	126
8.8. MAIN VII (POWER SUPPLY) SCHEMATIC DIAGRAM 87	11.3. FRAME SECTION (A, B)	127
8.9. LCD I (LCD POWER) / RELAY SCHEMATIC DIAGRAM	11.4. FRAME AND LCD SECTION (C, D, E, F) ······	
(C, D, E, F)89	11.5. COLOR EVF SECTION (A)	
8.10. LCD II (LCD DRIVE) SCHEMATIC DIAGRAM (C, D, F) · 90	11.6. EVF SECTION (B, C, D, E, F)	130
8.11. LCD II (LCD DRIVE) SCHEMATIC DIAGRAM (E)91	11.7. PACKING PARTS AND ACCESSORIES SECTION (A,	B)
8.12. EVF SCHEMATIC DIAGRAM (B, C, D, E, F)93		131
8.13. COLOR EVF SCHEMATIC DIAGRAM (A)94	11.8. PACKING PARTS AND ACCESSORIES SECTION (C,	
8.14. HEAD AMP SCHEMATIC DIAGRAM96	E, F)	
8.15. TOP OPERATION / SIDE L FPC / MF VR / VCR	12 REPLACEMENT PARTS LISTS	
OPERATION / MECHANISM FPC SCHEMATIC	12.1. REPLACEMENT NOTES	
DIAGRAM97	12.2. MECHANICAL REPLACEMENT PARTS LIST	
8.16. MIC/IR / BATTERY CATCHER SCHEMATIC DIAGRAM-98	12.3. ELECTRICAL REPLACEMENT PARTS LIST	137

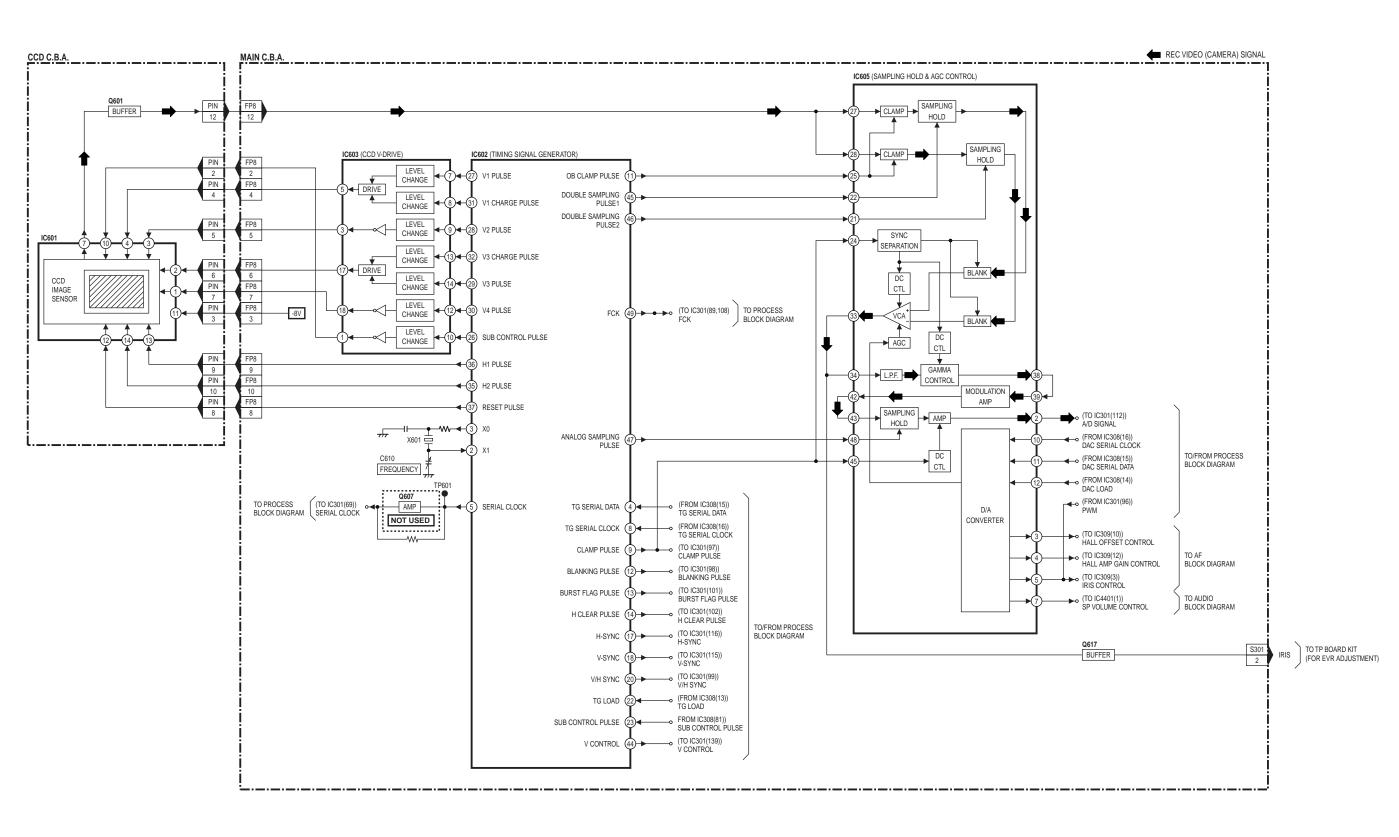


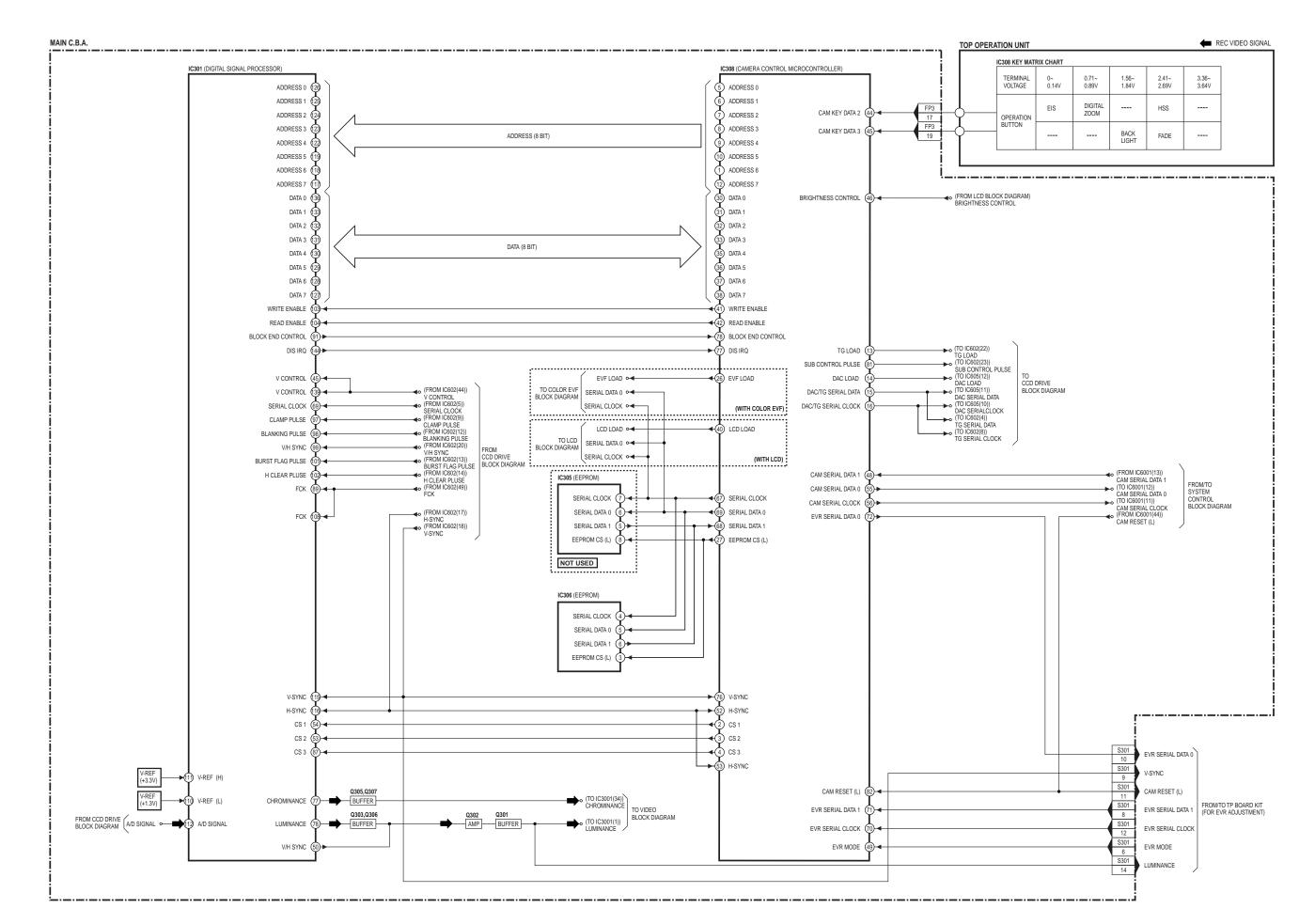


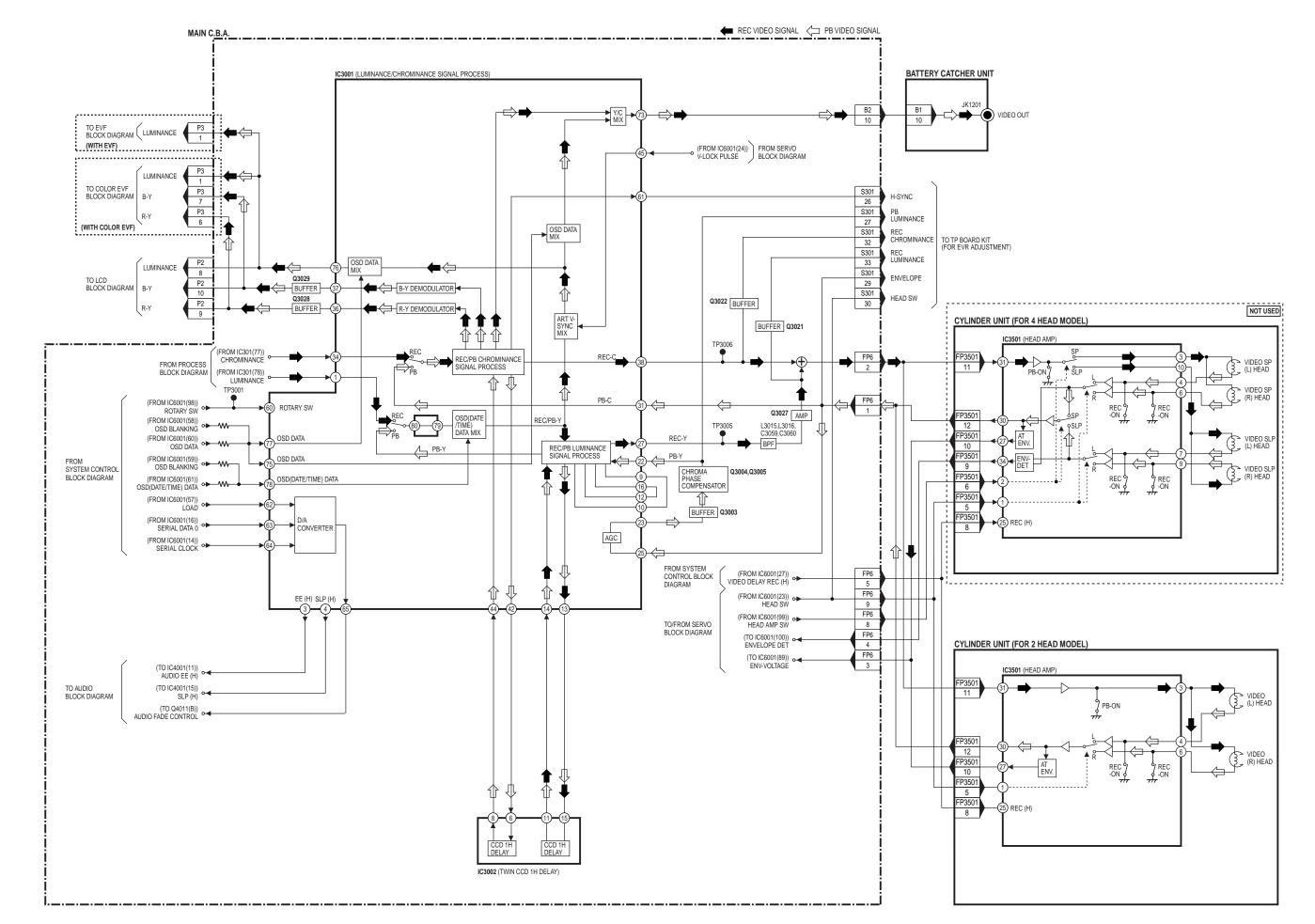
LCD C.B.A. VIDEO SIGNAL LCD PANEL UNIT LCD +5V IC9001(RGB SIGNAL PROCESS/LCD PANEL INDICATOR CONTROL) IC9003 (SYNC SEPARATOR) FP9001 NOT USED 11 Q9003 BUFFER 14 V/H SYNC SEPARATION FP9001 SEPARATION COUNTER LCD +3V 17 FP9001 LCD -15V 23 FP9001 V-SYNC LCD +12V SEPARATION 16 IC9004 (INVERTER) OEH FP9001 2 V/H SYNC SEPA FP9001 COUNTER 13 COUNT FP9001 DOWN VCO CPH3 FP9001 COUNTER CPH2 FP9001 LCD DRIVE OUTPUT 5 CPH1 FP9001 32kHz OSC OEV FP9001 19 STV2 FP9001 REG +3.5V 18 STV1 FP9001 22 LCD SHAFT FP9001 RELAY C.B.A. UNIT VR9001 20 BRIGHTNESS QH FP9001 3 FP9001 P2 P9001 LUMINANCE (48) ► CLAMP 13 8 8 11 10 P2 P9001 FP9002 FP1201 FP9001 FROM VIDEO RGB OSD BLOCK DIAGRAM 12 14 2)**→** DL CONTRAST 9 SW SW FP1201 X DRIVE X DRIVE P2 P9001 FP9002 FP9001 15 8 )**▶** DL LCD +3V LCD +5V 1 2 3 ----- 478479480 R G B R G B V-COM DC CONTROL FP9001 P2 P9001 FP9002 FP1201 BRIGHTNESS ( B R G 6 4 15 RGB CONTROL R G B R9004 D9001 P2 P9001 FP9002 FP1201 LCD LOAD -W--KI TO/FORM PROCESS LCD -15V 3 3 5 7 SERIAL R9005 D9002 FP9002 FP1201 P2 P9001 D/A CONVERTER BLOCK DIAGRAM SERIAL CLOCK 3 R9006 D9003 FP1201 FP9001 P2 FP9002 P9001 V-COM AC CONTROL 3 OP AMP ( SERIAL DATA 0 -W--H 2 24 FP9001 REVERSE(L/R) CONTROL 233 R G B RGB 12 LCD +7.5V (18) VCC (+7.5V) FP9001 REVERSE(UP/DOWN) CONTROL 25) VCC (+3V) LCD -15V ◆43 VCC (+3V) ◆44 VCC (+3V) LCD +3V (WITH 2.5 OR 3 INCH LCD) Q9051 PL9001 BACKLIGHT LCD +3V L9051 Q9052 LCD -15V (WITH 2.5 OR 3 INCH LCD) (WITH 4 INCH LCD) Q9102 BL +4.5V LCD +3V PL9101 BACKLIGHT Q9101 (WITH 4 INCH LCD)

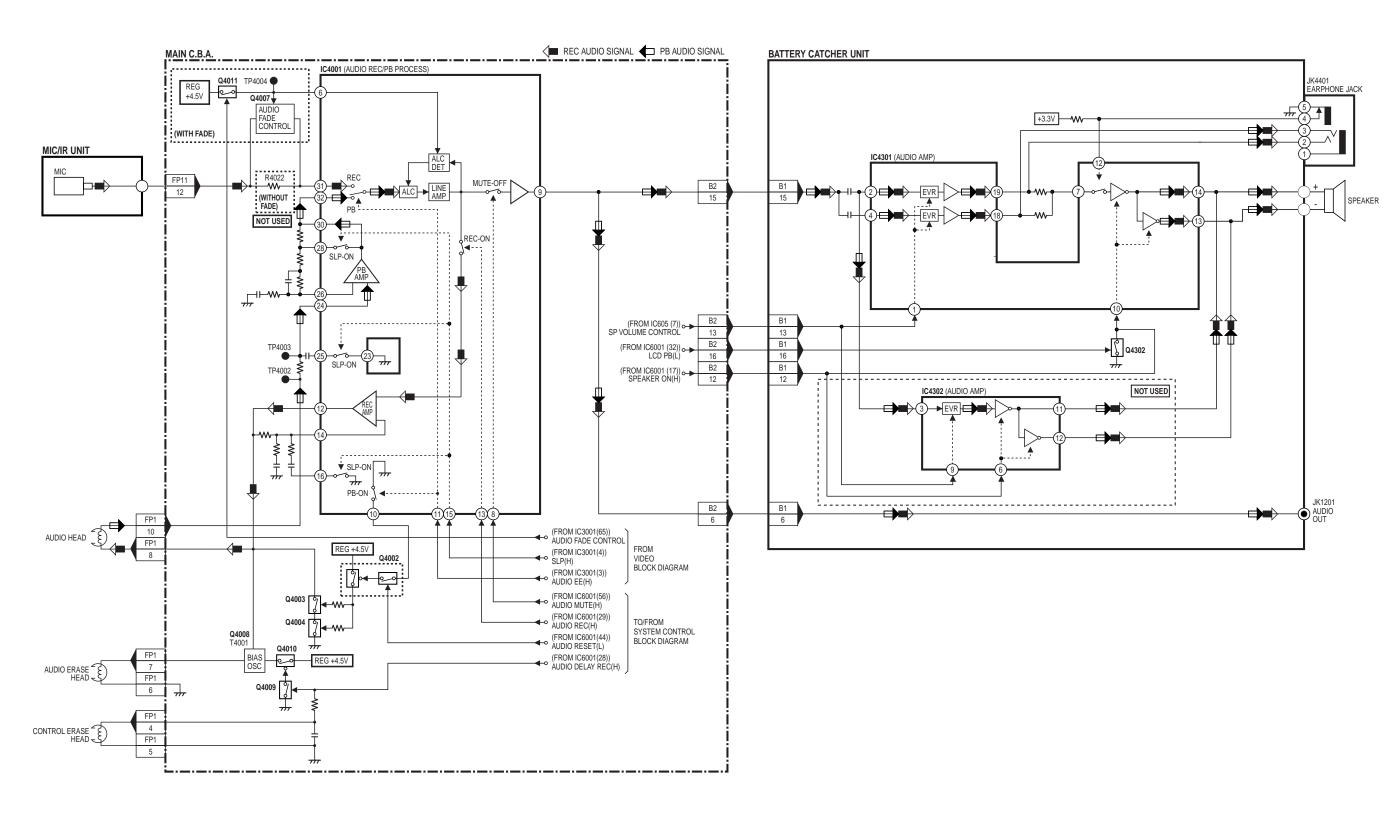


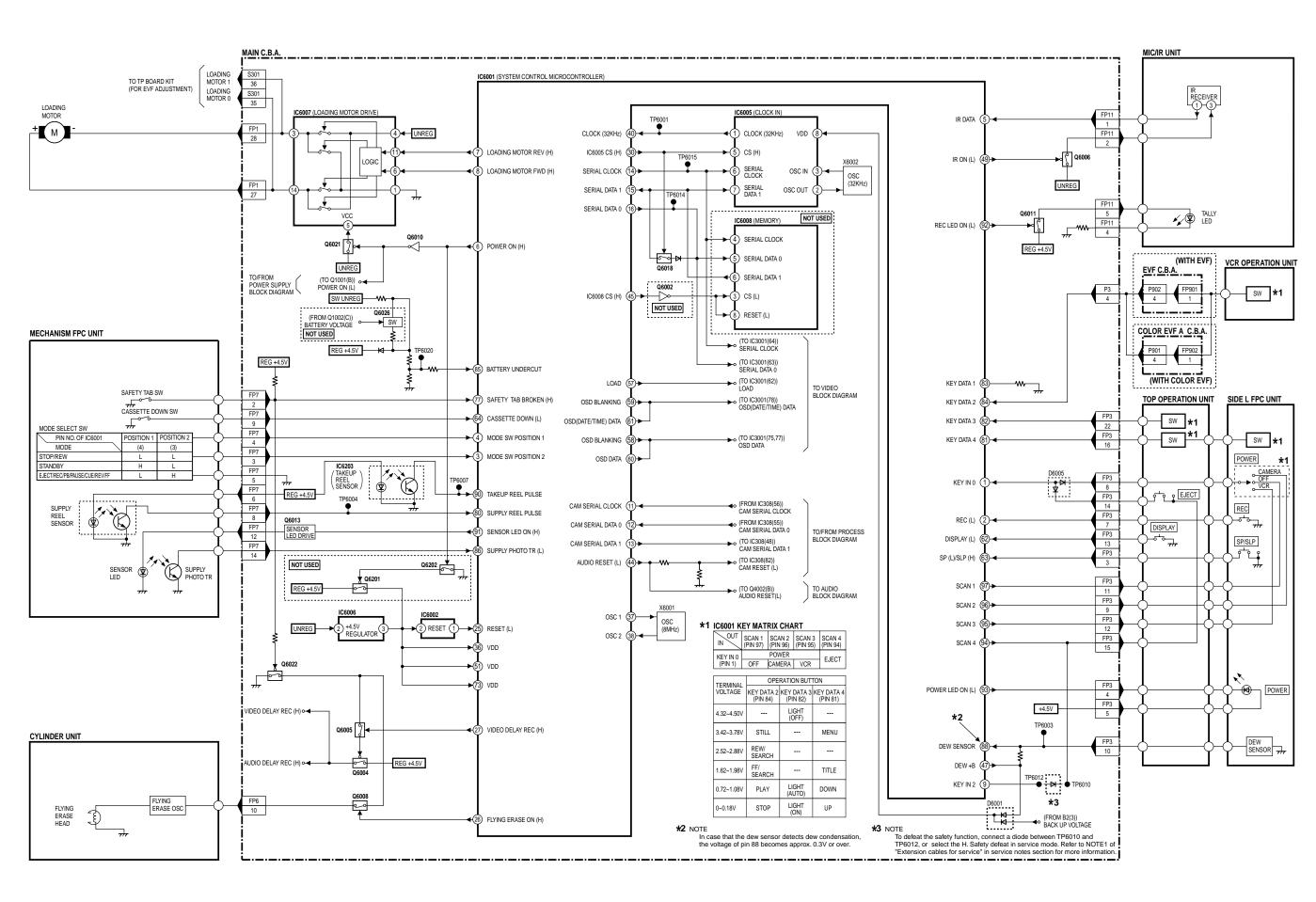


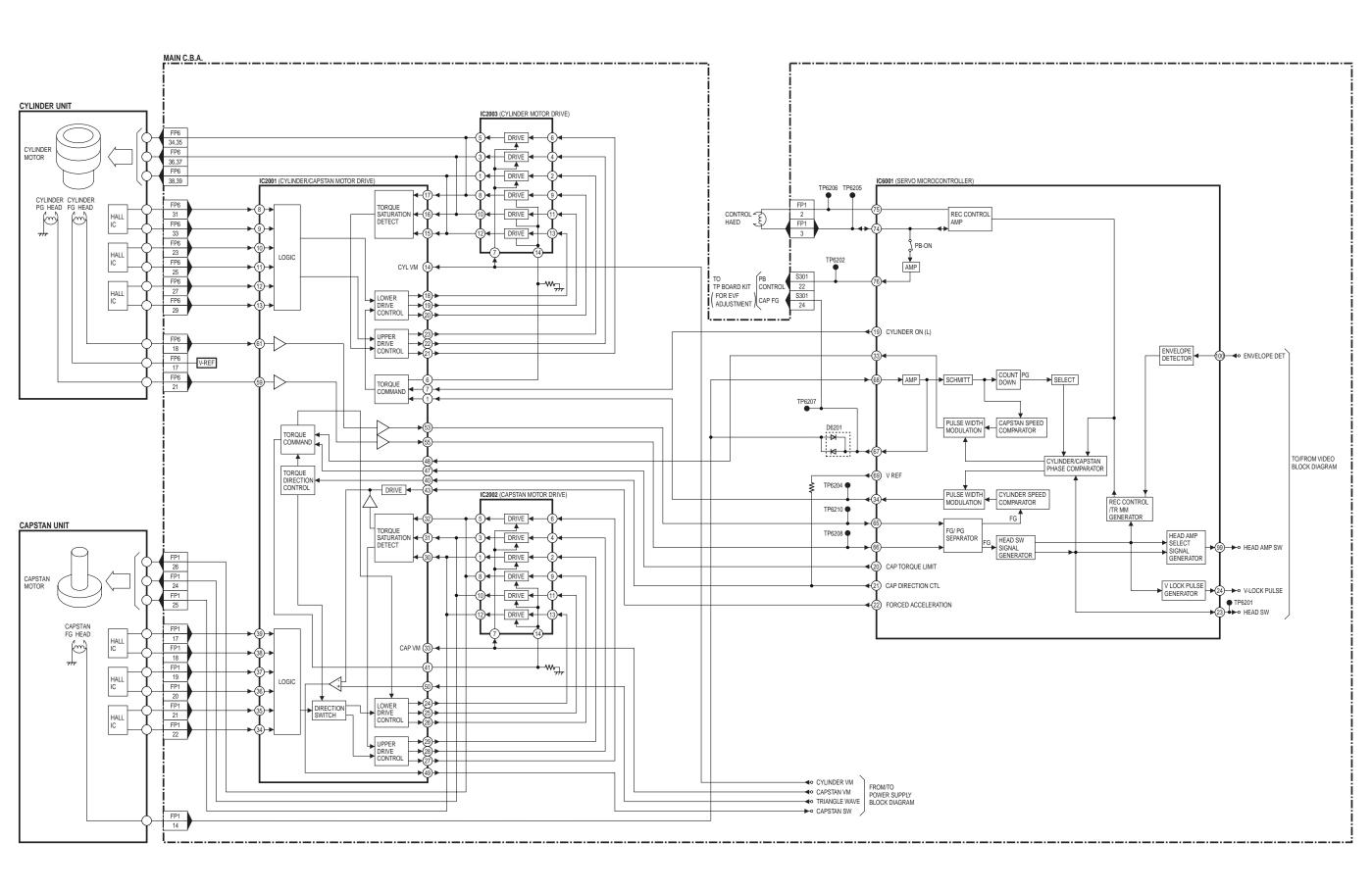


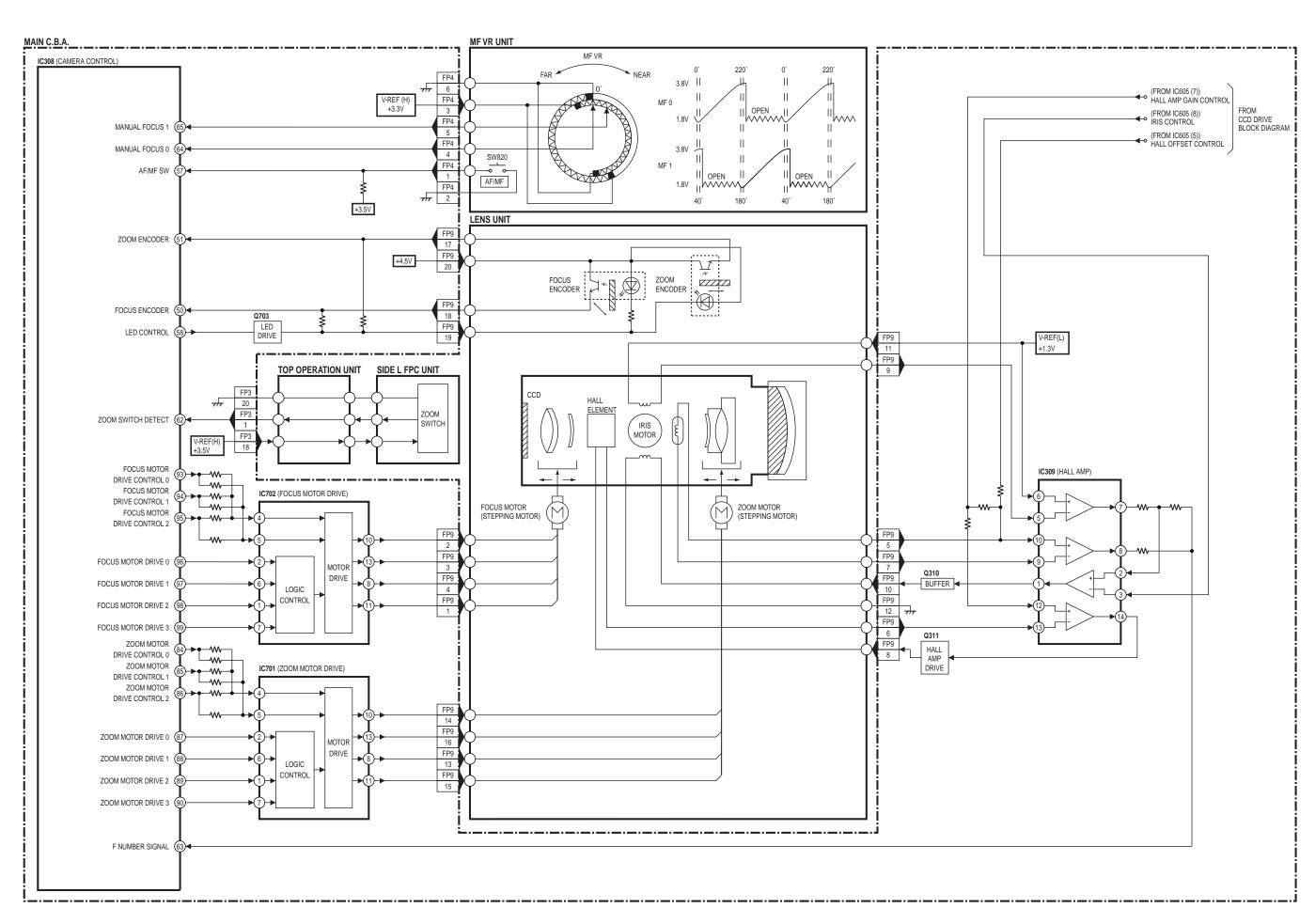


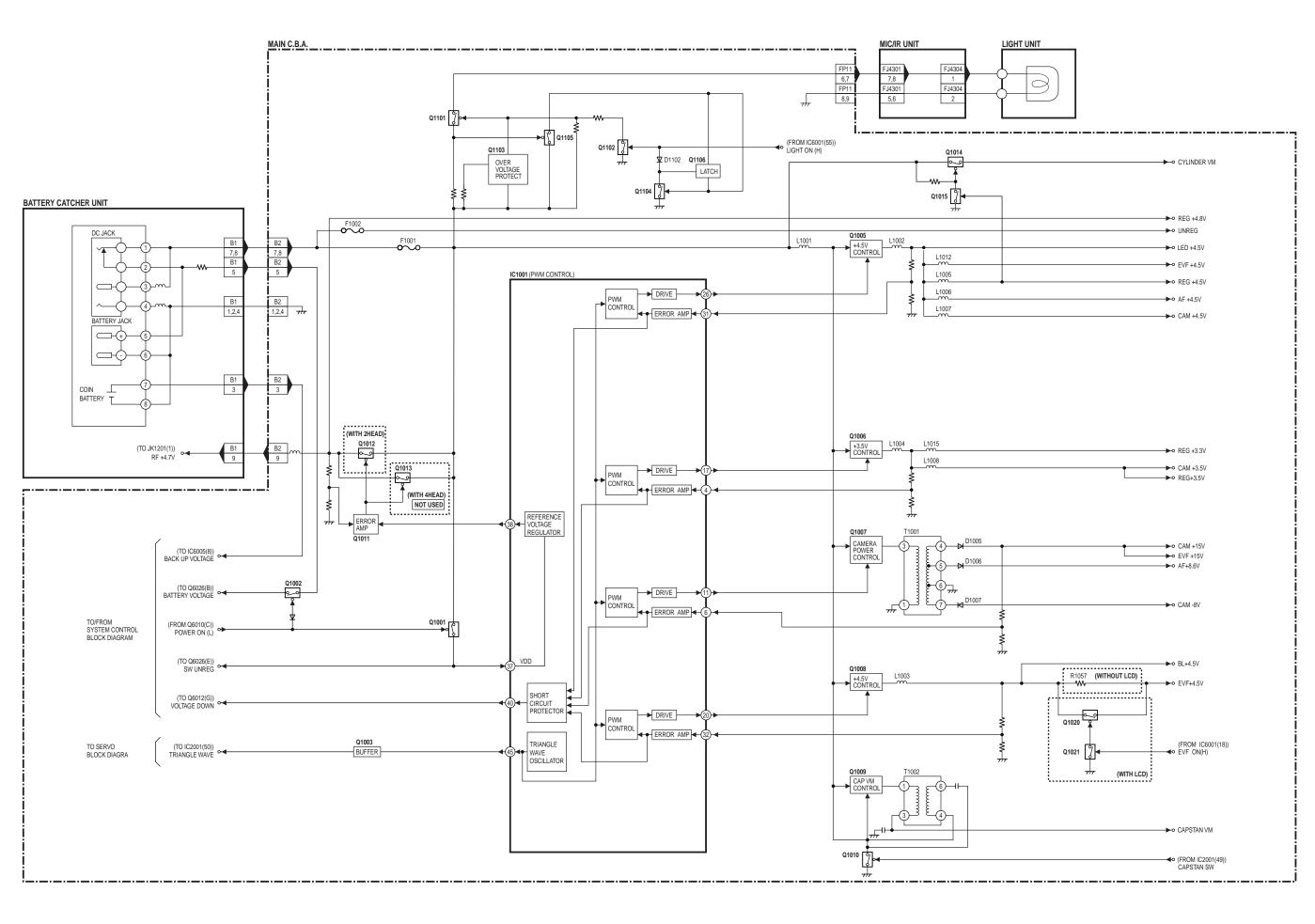












# MAIN C.B.A. LSEP8024E1 (A) / LSEP8024D1 (B) / LSEP8024A1 (C) / LSEP8024F1 (D) / LSEP8024C1 (E) / LSEP8024B1 (F)

∕3A 32V \

5

4

3

2

1

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 3A 32V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME TYPE 3A 32V

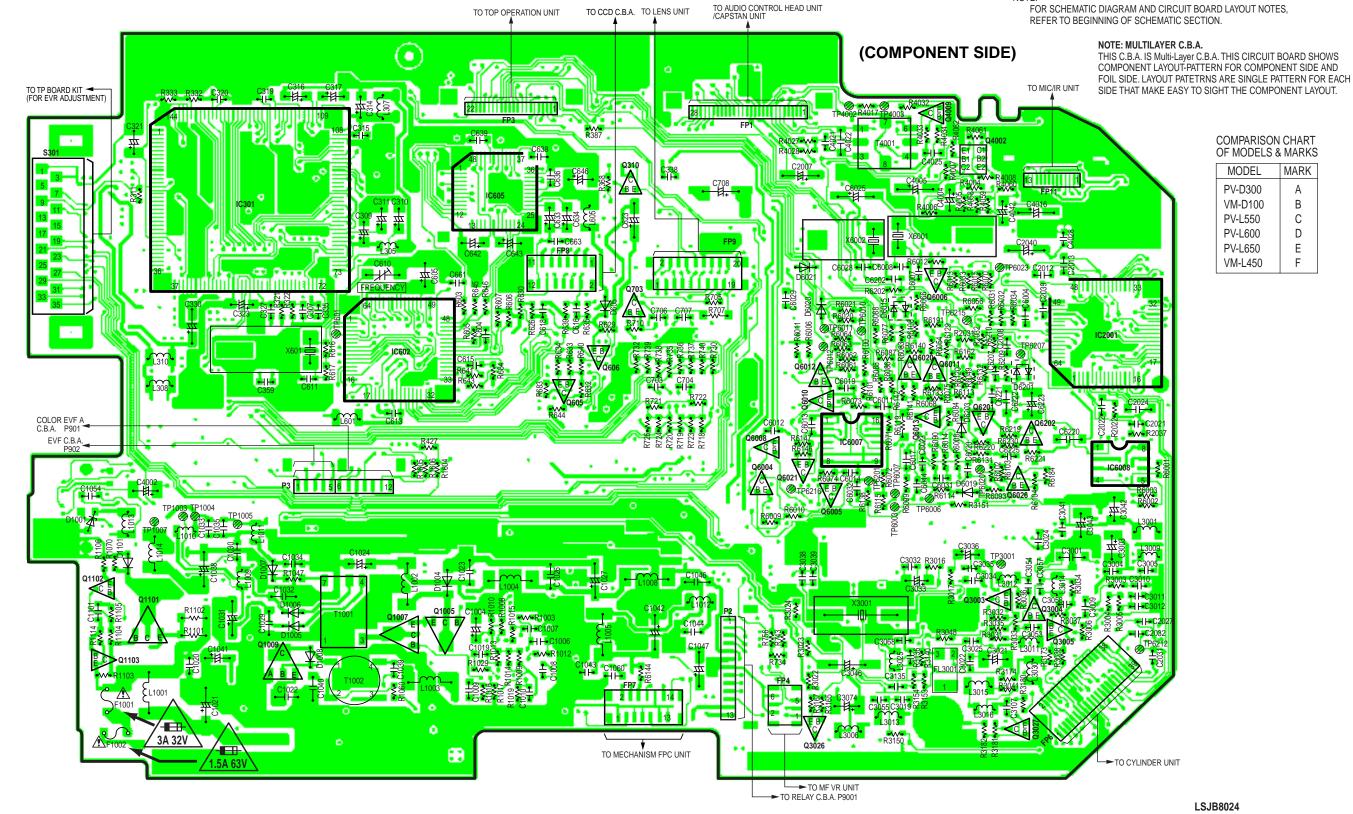
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 1.5A 63V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME ∕1.5A 63V\ TYPE 1.5A 63V

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.



D

# MAIN C.B.A. LSEP8024E1 (A) / LSEP8024D1 (B) / LSEP8024A1 (C) / LSEP8024F1 (D) / LSEP8024C1 (E) / LSEP8024B1 (F)

NOTE: MULTILAYER C.B.A. NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. REFER TO BEGINNING OF SCHEMATIC SECTION. COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, FOIL SIDE. LAYOUT PATETRNS ARE SINGLE PATTERN FOR EACH PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST. SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT. CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED. COMPARISON CHART OF MODELS & MARKS (FOIL SIDE) MODEL MARK PV-D300 VM-D100 PV-L550 PV-L600 . PV-L650 Ε VM-L450 F \_TO TP BOARD KIT 4 3 TO BATTERY
CATCHER UNIT B1 2 LSJB8024

G

NOTE

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

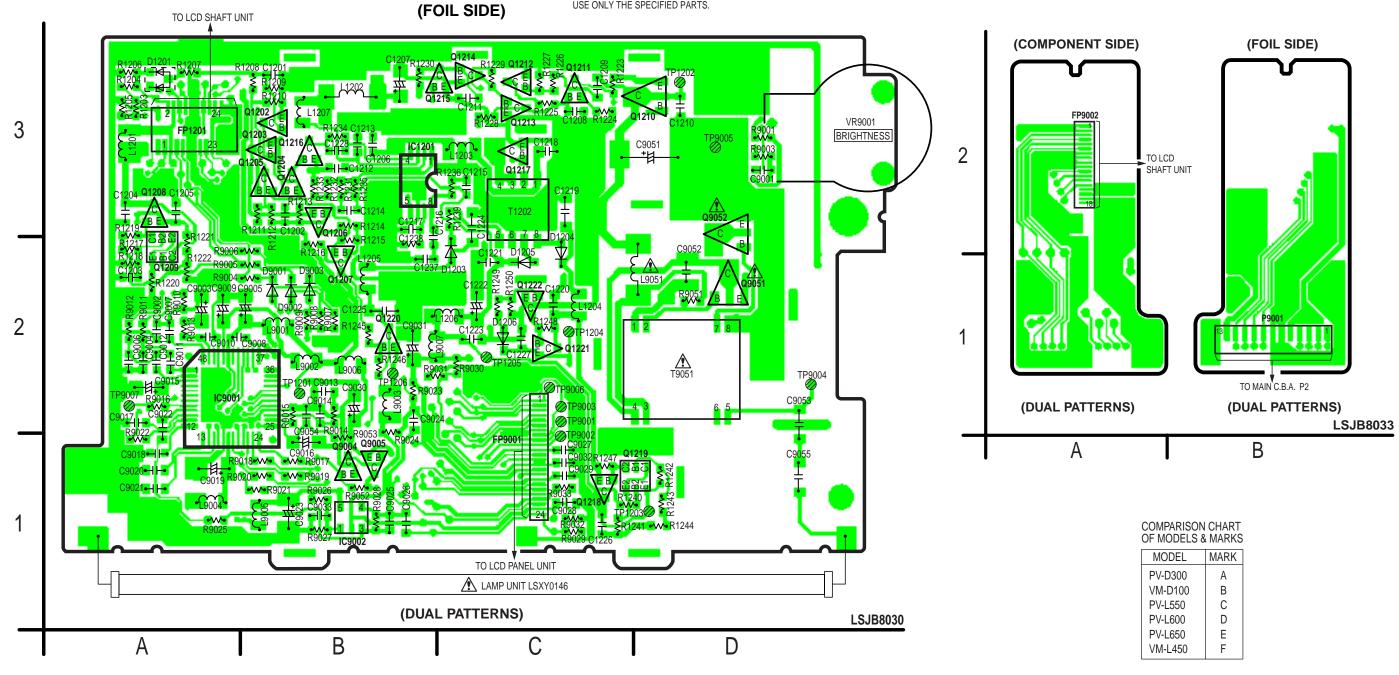
NOTE

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

NOTE

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



# LCD C.B.A. LSEP8031A1 (E)

NOTE:

CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

NOTE

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

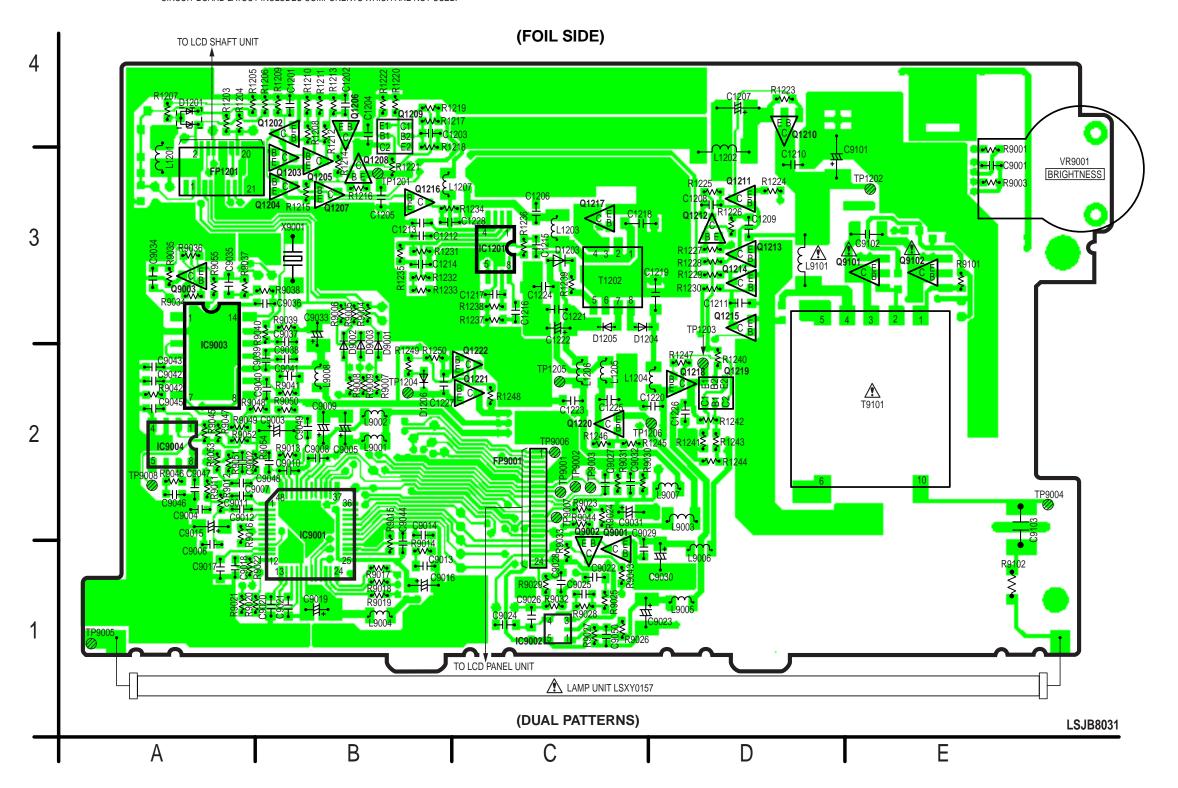
NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F



# **EVF C.B.A. LSEQ0558 (B, C, D, E, F)**

NOTE:

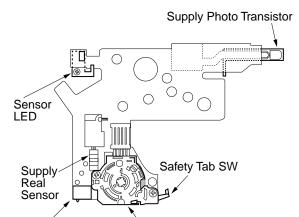
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN 🗥 HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.

### **MECHANISM FPC UNIT**

NOTE: MECHANISM FPC UNIT IS NOT SERVICEABLE AND IS SUPPLIED AS A UNIT ONLY FOR REPLACEMENT.



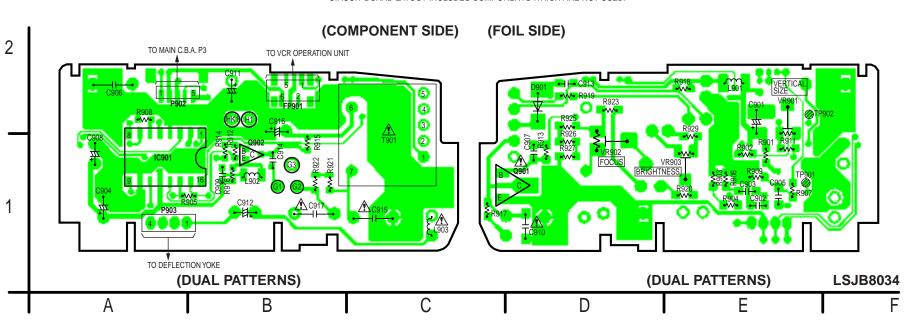
Mode SW

COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F

Cassette Down SW

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.



### COLOR EVF A C.B.A. LSEP8035A1 (A)

NOTE:

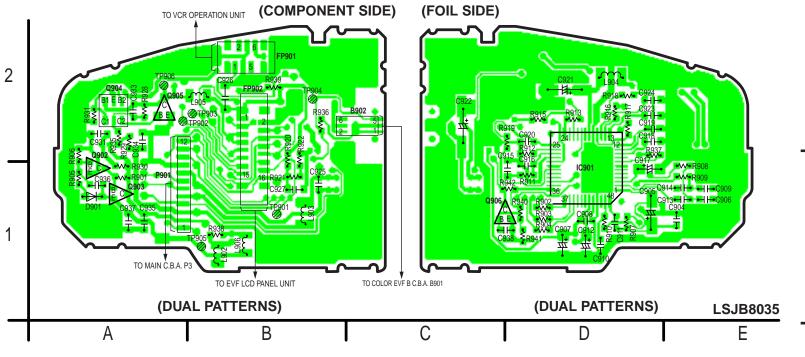
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

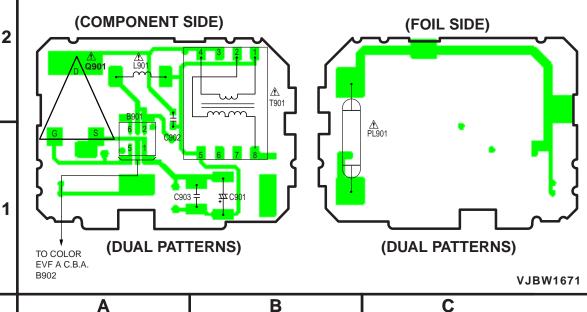
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.

# COLOR EVF B C.B.A. VEPW1671A1 (A)

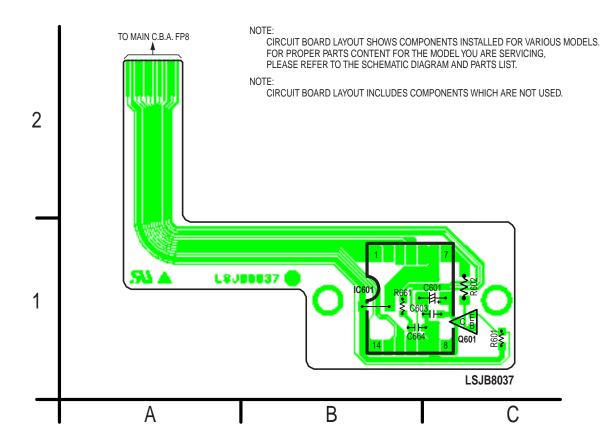
CIRCUIT BOARD LAYOUT SHOWS COMPONENTS INSTALLED FOR VARIOUS MODELS. FOR PROPER PARTS CONTENT FOR THE MODEL YOU ARE SERVICING, PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST.

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.





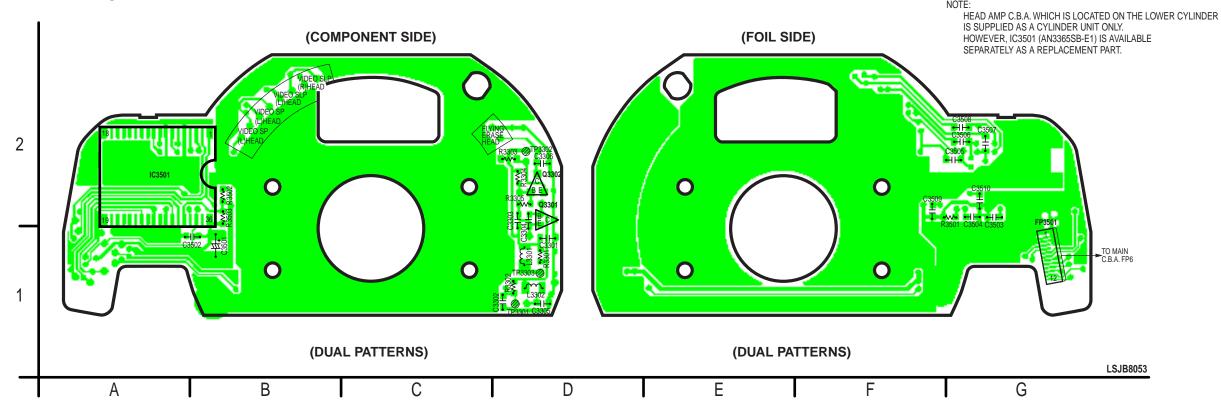
# CCD C.B.A. LSEQ0547



### NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

# **HEAD AMP C.B.A.**



# **Quick Operation Guide**

### **Charging the Battery Pack**

Charge Battery Pack fully before operation.

Insert <u>Battery.</u> CHARGE Lamp lights and then goes out when charging is



### Insert Cassette

2 Slide TAPE EJECT to open door.



Attach fully charged Battery.

Insert cassette.

Press here to close door.

### Camera Recording

When the LCD monitor is open, the EVF automatically turns OFF.



### (PV-L550/PV-L600/PV-L650/VM-L450)

### Playback using the LCD Monitor

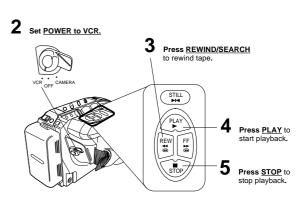
adjust the angle.

When the LCD monitor is open, the EVF automatically turns OFF.



Before you begin...

· Charge Battery Pack fully before operation.



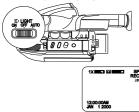
# **Built-in Auto Light**

and adjust the angle.

### Using the Light

For recording in dim lighting

Replacing the Bulb



Before you begin...

pause recording.

- · Connect Camcorder to power source.
- · Set POWER to CAMERA.

Set <u>LIGHT to AUTO</u>. Light turns on/off automatically according

to lighting conditions.

Or, set LIGHT to ON/OFF manually.

Press RECORD/PAUSE again to

**⇒D** appears in EVF or LCD Monitor when Light is on.

Light becomes hot. Never cover Light while on.

Before you begin... Order Part No. VULS0001 (VLLW0015 and cushions) for replacement bulb unit.
Set POWER to OFF.

Press in on both sides of lens cover and pull straight out and off.

Using Tweezers or needle-nose

pliers, carefully remove bulb. Take unit to service center if you need assistance.

Replace bulb using a clean cloth or tissue.

Replace lens cover.

### DANGER:

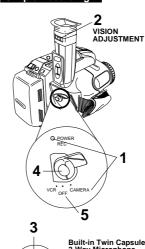
Use only replacement bulb (PART NO. VLLW0015) supplied by Panasonic to

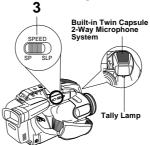
reduce risk of fire.
Handle new bulb with cloth or tissue as skin oils will decrease bulb life. Remove lens cover and allow bulb to cool before replacing to avoid possible burn hazard.

- Using Light reduces battery operating time
- Provide proper ventilation when using Light extensively in hot environment.
- Using Light when the Camcorder is powered by a car battery may shorten bulb life. Set Light to OFF when not in use.
- Handle bulb gently. Excessive force may cause bulb to crack

# Camera Recording

### Simple Recording





### Before you begin...

- Connect Camcorder to power source.
   Insert cassette with record tab.

Set POWER to CAMERA. Lens Cover opens.

> Power lamp lights. • Be sure POWER

EVF or LCD Monitor PAUSE

is fully turned to CAMERA position.

Record/Pause mode

Look into EVF and adjust <u>VISION</u> <u>ADJUSTMENT</u> to your eyesight.

Slide TAPE SPEED to SP or SLP.

Press RECORD/PAUSE to start or

pause recording.
Tally lamp lights if set to ON.

RECORD

Set POWER to OFF when finished.

 To remove cassette, slide TAPE EJECT in Record/

# Pause mode.

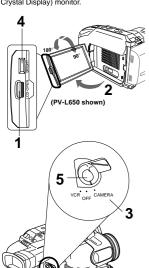
 When Camcorder is aimed at excessively bright objects, or bright lights, a vertical bar may appear in the picture. This is normal for the CCD pick-up. Try to avoid this when

# Camera Recording

### (PV-L550/PV-L600/PV-L650/VM-L450)

### Using the LCD Monitor

View recording scene on the LCD (Liquid Crystal Display) monitor.



### Before you begin...

- Connect Camcorder to power source. Insert cassette with record tab.
- Press LCD-OPEN to unlock LCD monitor.
- Swing LCD monitor fully open and adjust viewing angle.

Rotating partially open LCD monitor may block cassette door and damage Camcorder body.

- Set POWER to CAMERA.
- · LCD monitor turns on/off by the POWER switch.

  • EVF shuts off when LCD monitor is
  - opened and turns back on when
  - LCD is closed.

    Both EVF and LCD monitor turn on when LCD is at 180° (see above left).

This allows both you and the subject to view the recording.

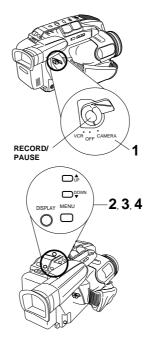
- Turn BRIGHT control to adjust LCD monitor brightness level.
- Press RECORD/PAUSE to start

### Note:

- · Using LCD monitor reduces battery operation
- Return LCD monitor to locked position when not

### Stand-by Quick Release

left in RECORD/PAUSE mode for 5 minutes, Camcorder switches to Stand-by mode to conserve battery. When set to ON, Stand-by Quick Release lets you resume recording by pressing RECORD/PAUSE two times. New camcorders will default to OFF.



### Before you begin...

- · Connect Camcorder to power source.
- · Insert cassette with record tab.
- Set POWER to CAMERA.
- Press MENU for MENU mode. Press UP ▲ or DOWN ▼ to select STAND-BY RELEASE.



- Press DISPLAY to select ON/OFF.
- ON: From Stand-by mode, press RECORD/PAUSE two times
- to resume recording. OFF: From Stand-by mode,

set POWER to OFF, then to CAMERA.
Press RECORD/PAUSE to record.

Press MENU to exit.

Before you begin...

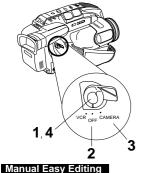
Connect Camcorder to power source.

Use AC Adaptor for longer recordings. Insert cassette with record tab. Set POWER to CAMERA.

# Camera Recording (continued)

### Easy Edit Stand-by

For a smooth transition between scenes if recording is stopped, and then started within 24 hours



### Before you begin...

- · Connect Camcorder to power source. · Insert cassette with record tab.
- Press RECORD/PAUSE to stop recording.
- Set POWER to OFF and leave cassette in Camcorder.
- To resume recording, set POWER to CAMERA.
- Press RECORD/PAUSE to resume recording.

### Note:

· Use Manual Easy Edit (below) if more than 24 hours before recording is resumed.

### Before you begin...

- Connect Camcorder to power source. · Insert cassette with record tab.



For proper continuity when taping from Stop

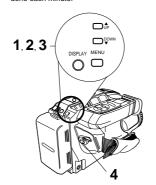
### Set POWER to VCR

- 2 A Press REWIND/SEARCH to rewind a few seconds of tape.
  - Press PLAY to review recording. Press STILL where you want to
- continue recording.
- Set POWER to CAMERA.

Press RECORD/PAUSE to resume recording.

### Programmed Recording

Set a recording start and stop time. Or, set a 5 or 10 second interval recording to be done each minute.



REC.

Press MENU for MENU mode.
Press UP ▲ or DOWN ▼ to select

Press DISPLAY. (Current time is displayed.)
Each additional press of DISPLAY

increases start time by 30 minutes

RECTIME: 10:20PM

Press DOWN ▼ to select REC select one of the options shown at the left.

START ; 10:20PM

To cancel the setup, press MENU

Press RECORD/PAUSE to place Camcorder in stand-by mode.



Recording will be done as scheduled.

### Note:

Start time may not be set over 24 hours from current time.

Record 5 seconds each minute.

Record 10 seconds each minute.

20MIN. → 30MIN. → TO TAPE END

INTERVAL \* 1

INTERVAL\*2

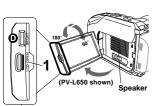
\*1 Interval 5 SEC/MIN:

\*2 Interval 10 SEC/MIN:

- Camcorder shuts off at tape end, or 12 hours after Interval Recording starts.
- To cancel, set <u>POWER to OFF</u>.

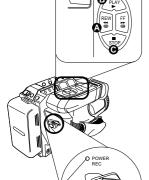
# Playing Back Recordings

### Playback on EVF or LCD Monitor



STILL

3



### Before you begin...

- · Connect Camcorder to power source. Insert recorded tape.
- Press LCD-OPEN and swing LCD
  - monitor fully open. If you want to playback on EVF, close and lock LCD monitor.

### Set POWER to VCR.

- Power lamp lights.
- · If tape has no record tab, auto playback begins.
- EVF or LCD monitor turns on/off by the POWER switch.
- EVF shuts off when LCD monitor is opened and turns back on when LCD is closed.
- Playback function buttons.
  - REW(ind) : rewind tape.

    B PLAY : play tape. STOP stop tape. · adjust I CD monitor BRIGHT
  - **Q** VOLUME : Adjust volume of speaker.

Press "T" Volume up(+) Press "W" : Volume down(-).

brightness



- · Using LCD monitor reduces battery
- operating time.

  Return LCD monitor to locked position when not in use



### Before you begin...

- Connect Palmcorder to power source.
- · Insert recorded tape.
- Set POWER to VCR.

### **Quick Visual Search**

### Search Speed

SP (Standard Play) : 3 times normal. SLP (Super Long Play) : 9 times normal.

During playback, press: FF : fast forward search REW : rewind search

Press again or press PLAY for normal play.

### Still Picture

Press STILL to freeze picture. Press again for normal play.
This feature is works best in SLP mode.

- During search, horizontal noise bars will appear. Audio is muted.
  To protect video heads and tape, operating modes will revert as follows after 5 minutes: ➤ Stand-by
  - Stand-by → Power off (when Battery Pack is used).
- Tape auto-rewinds if played or fast forwarded to end.

### Tracking Control

### **Auto Tracking**

Continuously analyzes each recording for optimum picture quality.

### **Manual Tracking**

Some recordings require manual adjustment to reduce noise. Press UP ▲ or DOWN ▼ until Playback

picture clears up.

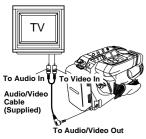
Press <u>DISPLAY</u> to return to Auto Tracking.

# Playing Back Recordings (continued)

### TV Playback or Viewing

Connect Camcorder to a TV to view playback or recordings in progress.

### TV with AUDIO/VIDEO IN Jacks.



TV without AUDIO/VIDEO IN Jacks.

### Before you begin...

- Connect Camcorder to power source. Make all TV-Camcorder connections.

Set POWER to:

→ view playback. CAMERA→ view picture as it is recorded

Turn TV ON and set to LINE INPUT.

See TV owner's manual.

Begin playback or recording.

# Playing Back Recordings in a VCR

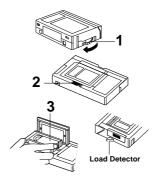
### Load Battery in PlayPak



### Remove Battery lid and insert AA battery.

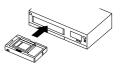
- · Do not reverse polarity.
- · Replace battery when tape loading/ unloading takes longer than usual.

### Insert WISC Cassette in PlayPak



- Turn VHS cassette Tape Wheel in direction of arrow to take up any
- Slide RELEASE to open cassette lid.
- Insert the VHSP cassette with the window up and on the left, then snap lid shut.
- Do not obstruct cassette reel while
- loading.

   Allow PlayPak Load Detector to fully retract before using in VHS VCR.



To watch TV only, **a** Set Camcorder POWER to OFF. Set RF Adaptor TV/VCR Selector to TV.

If TV has no VIDEO/AUDIO IN jacks, connect PV-RF16 RF Adaptor

(optional). Tune TV to CH 3 or 4 to

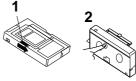
match RF Adaptor CH 3/4 Selector.

c Turn TV ON and select channel.

### **CATV System Installer**

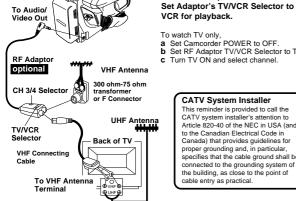
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### Remove WISC Cassette



Slide RELEASE and wait for lid to

Push cassette out through hole in bottom of PlayPak with your finger.



# Copying your Tapes (dubbing)

# PLAY Source (Playing) Camcorder REW FF Audio/Video VHF Connecting Cable (not supplied) VCR To Audio To Video

### Monitor with your TV

. Turn TV on and tune to VCR channel (CH3 or CH4)

Audio/Video Cable (supplied)

• Set TV/VCR Selector on VCR to VCR.

### Before you begin...

- Make Camcorder-VCR connections
- (see left). Turn both units on.
- Set VCR input signal to LINE.
   Please see VCR owner's manual
   Set Camcorder POWER to VCR.
- Insert a <u>pre-recorded tape</u> into Camcorder and a blank tape with record tab into VCR.
- Press PLAY on Camcorder, then press STILL at starting point
- Press REC, then STILL/PAUSE on
- Press STILL on Camcorder and STILL/PAUSE on VCR again to start
- Press STOP on both units to stop copying.

### Note:

- Camcorder will only playback tapes recorded in SP or SLP mode.
- · Dubbing may reduce picture quality.

### CAUTION:

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

# Power Zoom / Backlight

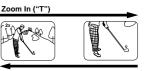
### Four-Speed Power Zoom

Zoom in (close up) and out (wide angle) in one of four speeds ranging from slow (16 seconds) to fast (2 seconds).



### Before you begin...

Connect Camcorder to power source.
 Set POWER to CAMERA.



### Zoom Out ("W")

### Zoom slowly:

Lightly press "T" (telephoto) or "W" (wide angle) POWER ZOOM button.

### Zoom quickly:

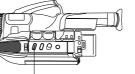
Apply more pressure to the button.

### Backlight

Use when subject is darker than surroundings, in shadowed area, or in front of the light source

# Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.



Press BACKLIGHT while recording to select the level of backlight compensation.

In normal lighting, **press BACKLIGHT** repeatedly until no indicator displayed.

# **EVF or LCD Monitor**



BACKLIGHT

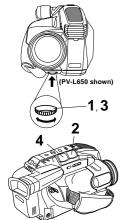
### ocus

### Auto Focus



### MANUAL FOCUS Manual Focus

- Use Manual Focus (MF) when :
- recording through glass.
- lighting is poor.
- · subject is far away with objects in foreground.
- · subject has distinct horizontal lines.



### Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.

Camcorder automatically focuses on subject even during zooming.

Auto Focus is on when "MF" is not displayed in EVF or LCD monitor. Push MANUAL FOCUS to remove "MF" in EVF or LCD monitor if necessary

- · subject is not centered in EVF or LCD monitor.
- · subject has shiny surface
- subject is slanted.
- · subject is bright and flat, like a white wall.
- · subject has fast motion, like a golf swing
- Push MANUAL FOCUS so "MF" (Manual Focus) appears in EVF or LCD monitor.



Hold down "T" (telephoto) on POWER ZOOM to maximum zoom

Turn MANUAL FOCUS until subject · Back away from subject if necessary

Hold down "W" (wide angle) on POWER ZOOM as desired.

· Refocus as needed when aiming at new scenes

# High Speed Shutter

Improves Still or Slow Motion playback picture of high speed subjects (e.g. a tennis stroke), when viewed on Camcorder or 3 or 4 head VCR.

### Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.
- Insert cassette with record tab.
- **Auto Shutter**

In AUTO mode (no indication in EVF or LCD Monitor), shutter speed is auto-adjusted from 1/60 to 1/350 according to subject brightness.

· AUTO mode is selected each time POWER is set to CAMERA.

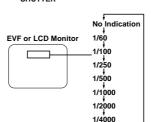
### Manual Selection

The faster the shutter speed, the more light is needed for proper picture and color quality. High Speed Shutter indication flashes if light is inadequate. Provide additional light.



Press HIGH SPEED SHUTTER while recording.

Press repeatedly to change shutter (See below, left.)



1/10000

### Note:

- Provide additional halogen or tungsten light for use indoors or in poor light. Fluorescent light degrades picture.
- · Auto Focus may not function properly if high speed shutter is used in inadequate liaht.
- Setting reverts to AUTO each time POWER is set to CAMERA.

### Macro Focus (close-ups)

Auto Focus functions up to 12.7 mm (1/2 inch) from subject. Hold down "W" on POWER ZOOM to maximum wide angle. Bring Camcorder up close to the subject.

### Tally Lamp

The tally lamp can be set to come on or stay off during recording.





### Before you begin...

- Connect Camcorder to power source.
- Set POWER to CAMERA.

Press MENU for MENU mode. Press UP ▲ or DOWN ▼ to select



Press DISPLAY to select: ON → lamp lights during recording. OFF → lamp stays off.

Press MENU to exit.

# Digital Zoom

Power Zoom magnification is digitally increased.

2

000

### Before you begin...

 Connect Camcorder to power source. · Set POWER to CAMERA.

### Press DIGITAL ZOOM.

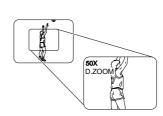
D.ZOOM mode (150X maximum).

Higher digital magnification levels may cause picture distortion.

### Hold down "T" on POWER ZOOM. Digital Zoom starts when norma zoom reaches maximum (18X).

- · Zoom level appears in EVF or LCD monitor
- POWER ZOOM switch controls digital zoom level.
- · Normal zoom resumes when level falls to 18X.



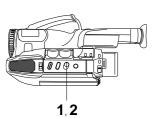


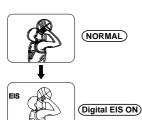
1,3

### Digital E.I.S.

### Digital Electronic Image Stabilization (E.I.S.)

Helps stabilize picture when recording in unstable situations.





### Before you begin...

- Connect Camcorder to power source.
   Set POWER to CAMERA.
- Press EIS to display "EIS" in the EVF or LCD monitor.
  - · Image becomes slightly enlarged and shutter speed auto-adjusts from 1/80 to 1/350 according to brightness.
  - Use High Speed Shutter if needed. Shutter speed setting remains after EIS is canceled.
- Press EIS again to cancel when not in use.

### E.I.S. may not function during.

- · extreme Camcorder movement.
- recording of subject with distinct horizontal or vertical stripes.
- low light situations (EIS indicator
- flashes).
- intense fluorescent lighting situations.
- · recording of very fast motion.

# **Operation Notes**

### Attaching Optional Filters and Lenses

When you remove the Lens Hood, pinch the Lens Hood and turn it counterclockwise as illustrated at right.

### Then attach an optional filter or lens.

- · Be careful not to touch the lens itself.
- Replace the Lens Hood after removing the accessory.

### Lens Hood Area Operation Caution

With a Wide or Telephoto conversion lens (optional) attached, the four corners of the screen may darken when zoom is set to maximum wide angle.

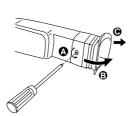
When attaching the lens hood, a Wide or Telephoto conversion lens (optional), etc. after a filter (optional) has been attached, the four corners of the screen may darken when zoom is set to maximum wide angle.

With two filters (optional) attached, the four corners of the screen may darken when zoom is set to maximum wide angle.

### Cleaning EVF (Electronic Viewfinder)

### (VM-D100/PV-L550/PV-L600/PV-L650/VM-L450)

To Remove



- A Remove the screw with a Phillips screwdriver.
  - Turn counterclockwise. (B) Turn the EVF Eyepiece.
  - Pull the EVF Eyepiece.
- Remove any lint or dust particles
- with a soft clean cloth being careful not to scratch the glass surfaces.
  - Replace the EVF Eyepiece and the screw.

### 1. Important safety notice

Components identified by the sign A have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

- 2. Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.
- 3. Use only original replacement parts:

To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

- 4. Parts different in shape or size may be used.
  - However, only interchangeable parts will be supplied as service replacement parts.
- 5. Test point information
  - ②: Test point with a no test pin.

### **Schematic Diagram Notes**

1. Indication for Zener Voltage of Zener Diodes

The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

Example:

(6.2V).....Zener Voltage

### 2. How to identify Connectors

Each connector is labeled with a Connector No. and Pin No. Indicating what it is connected to, in other words, its counter

Use the interconnection schematic diagram to find the connection between associated connectors.

The connections between C.B.A.s are shown below.

Ref. No. of the connection parts such as lead cable, flexible cable which is supplied as a replacement parts. The Number of pins of the Connector. MAIN C.B.A. RELAY C.B.A. P9001 E64 (13 Pins)

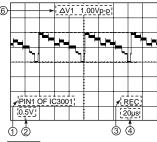
Connector No. on Main C.B.A.

3. Parts enclosed in dashed lines marked "Z" are not used in any models included in this service manual.



### **Signal Waveform Note**

How to read Signal Waveform



- Connecting Point
- Volts/DivOperation Mode of **VCR**
- (4) Time/Div
- (5) Waveform Point on Schematic
- ⑥ ΔV1:Peak to Peak

# **WF5 ←**⑤

# **Voltage Chart Note**

Voltage Measurement

- a. Color bar signal in SP mode.
- b. ---: Unmeasurable or not necessary to measure.

### **Circuit Board Layout Note**

Circuit Board Layout shows components installed for various models. For proper parts content for the model you are servicing, please refer to the schematic diagram and parts list.

Circuit Board Layout includes components which are not used.

## Comparison chart of models & marks

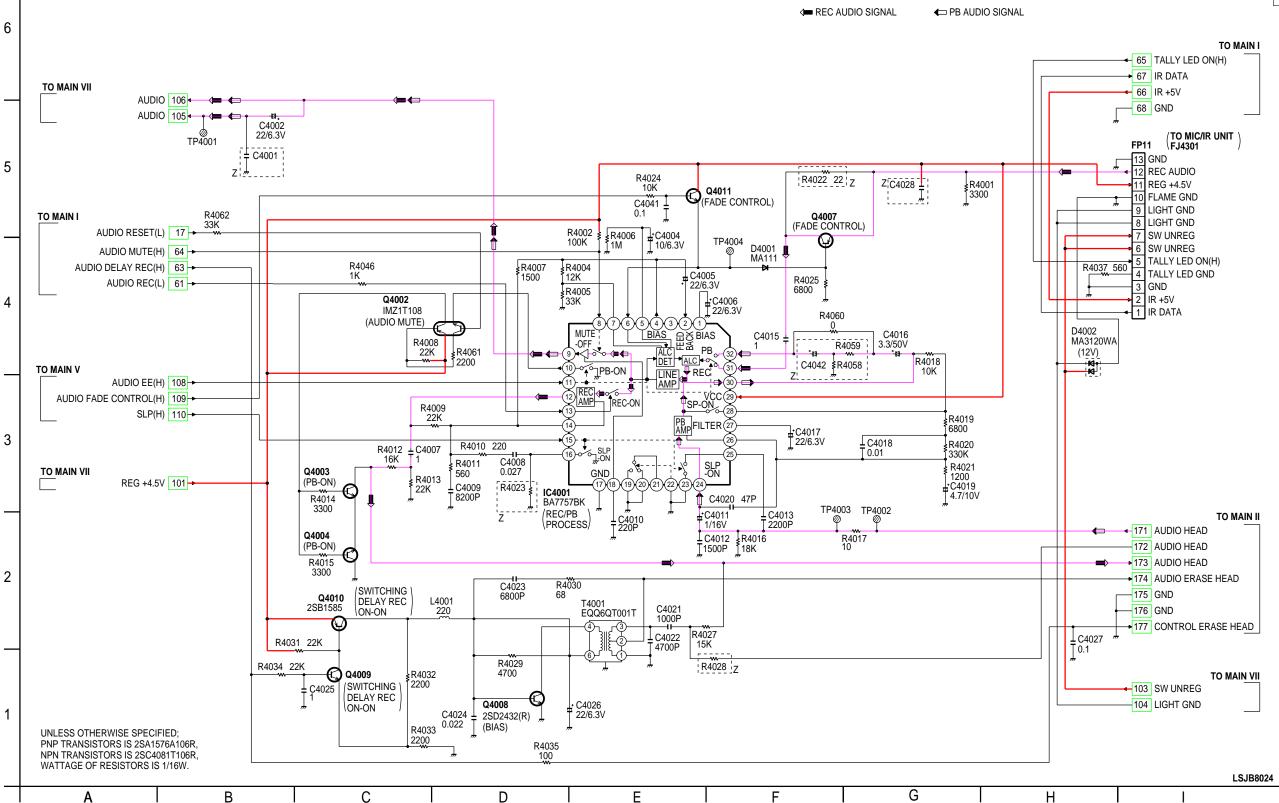
MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F
Not Used	Z

Refer to item 3 of Schematic Diagram Notes for mark "Z".

MODEL PV-D300 С D Ε F

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

VM-D100 PV-L550 PV-L600 PV-L650 VM-L450 Not Used Ζ



NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

AVE 76
B(L) 90
DAD 10

В

9

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 1.5A 63V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 1.5A 63V

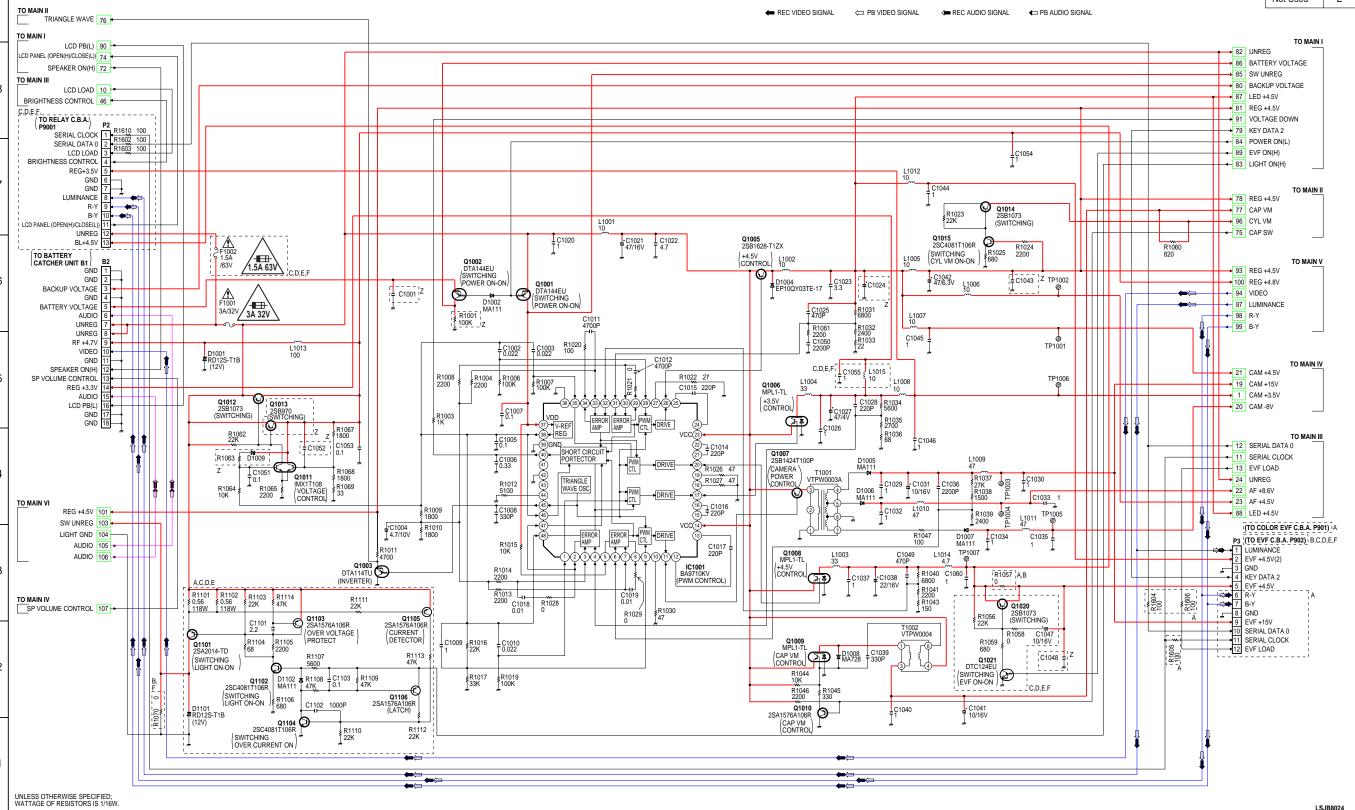
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 3A 32V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 3A 32V

MODEL MARK
PV-D300 A
VM-D100 B
PV-L550 C
PV-L600 D
PV-L650 E
VM-L450 F
Not Used Z

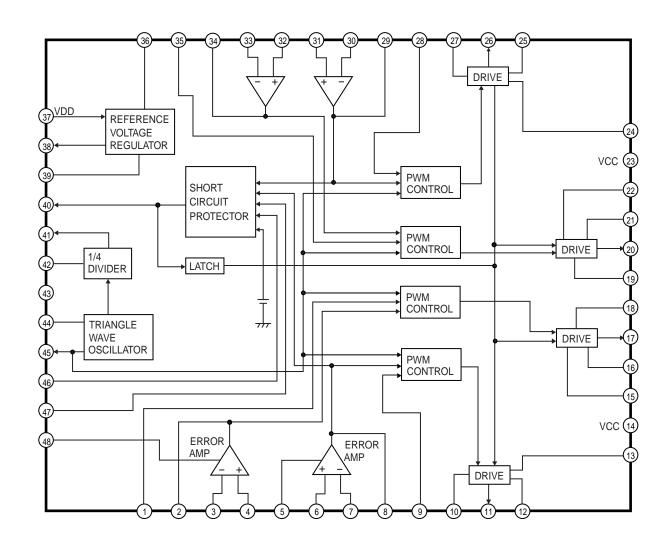
Ν

COMPARISON CHART

OF MODELS & MARKS



# IC1001 PWM CONTROL IC-DETAIL BLOCK DIAGRAM, BA9710KV



 MODEL
 MARK

 PV-D300
 A

 VM-D100
 B

 PV-L550
 C

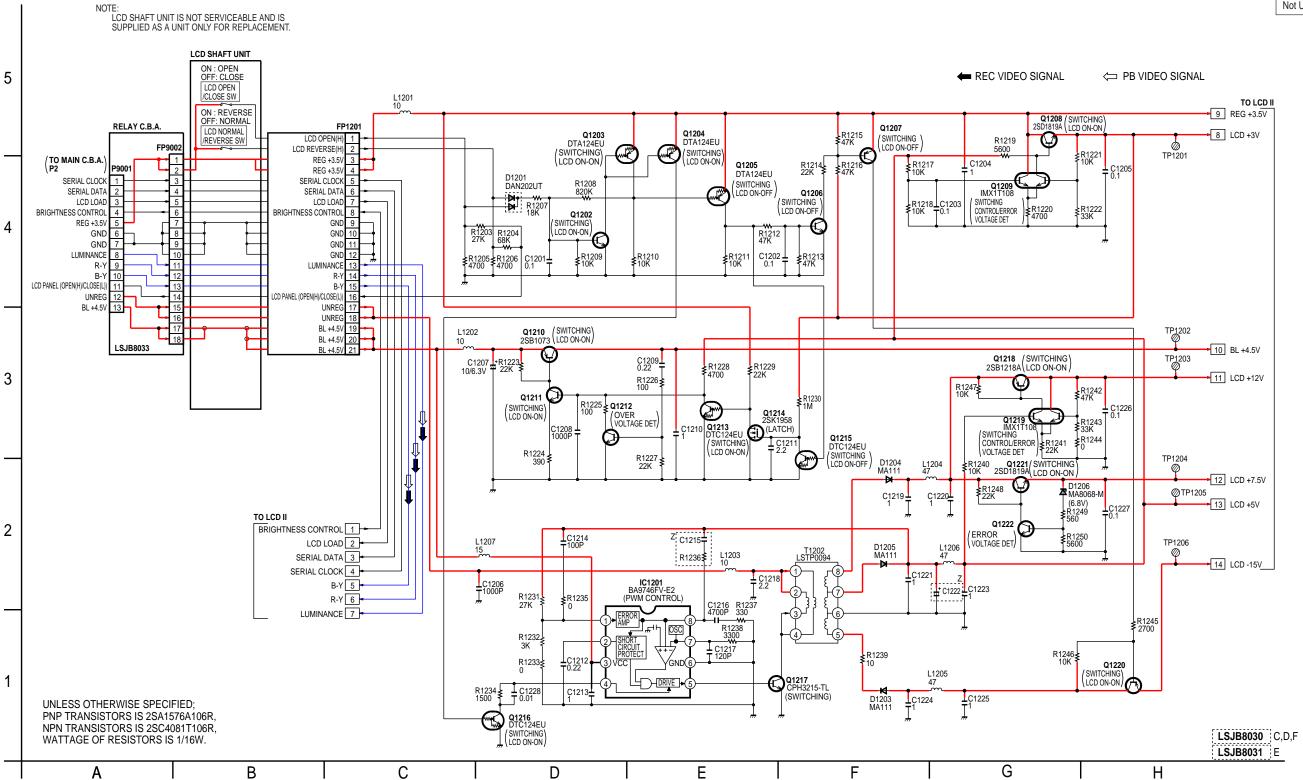
 PV-L600
 D

 PV-L650
 E

 VM-L450
 F

 Not Used
 Z

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.



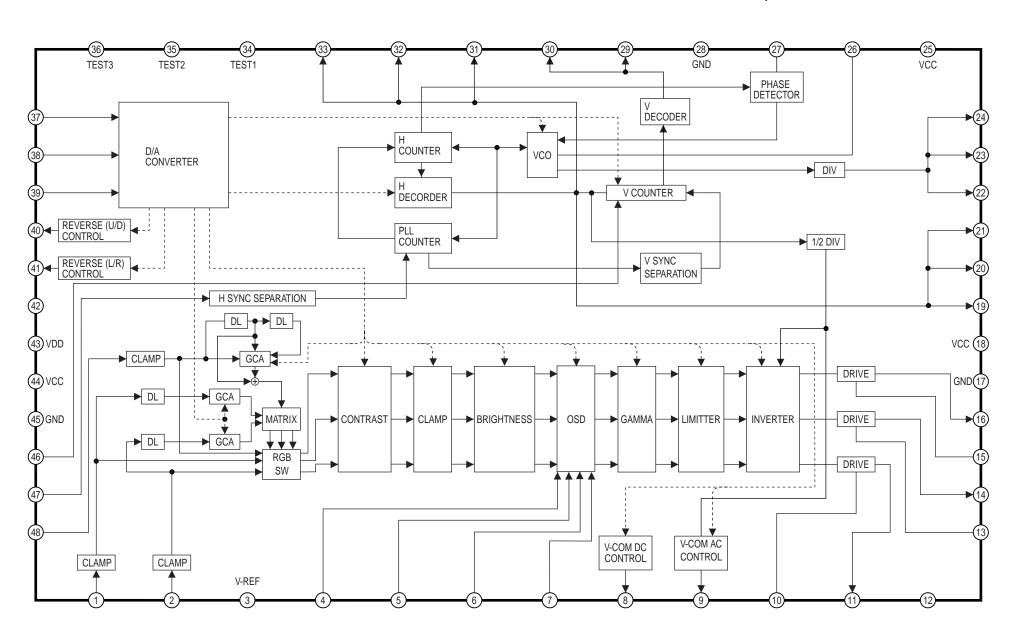
IMPORTANT SAFETY NOTICE: COMPARISON CHART COMPONENTS IDENTIFIED BY THE SIGN A HAVE FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, OF MODELS & MARKS REFER TO BEGINNING OF SCHEMATIC SECTION. SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. MODEL WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS. PV-D300 VM-D100 В PV-L550 С PV-L600 D PV-L650 Ε F VM-L450 REC VIDEO SIGNAL Ζ Not Used LCD+7.5V 12 LCD+12V 11 LCD+5V 13 LCD+9V 8 L900615 6 REG+3.5V 9 R9001 4700 BRIGHTNESS 1 Z R9053 BRIGHTNESS C9001 T 0.1 R9003 ₹4700 R9007 R9008 R9009 10K 10K 10K IC9001
AN2545FHQ
R9015/ RGB SIGNAL PROCESS
12K / ICD PANEL INDICATOR
CONTROL C9054 ₹ R9014 15K **=** 1500P -333333333327323-LCD PANEL UNIT TP9006∅ 5 C9005 5 10/6.3V+ Q2H R9017 0 23 R9018 0 R9019 0 R9004 1K R9005 1K R9006 1K D9001 MA111
D9002 M MA111
D9003 M MA111 37 SERIAL

38 D/A

CONVERTER LCD LOAD 2 LCD PANEL DRIVE CONTROL SERIAL CLOCK 4 SERIAL DATA 3 CLK2 CLK3 TP9001 WF20 TP9002 WF19 TP9003 WF21 L9004 GND H SYNC V SYNC SEPARATION SEPARATION L9001 15 VCC (18 C9019 10/16V GND (17 R9020 100 C9021 11 2.2 (14) R9021 11 100 (14) C9020 11 2.2 DRIVE L9002 15 RGB SIGNAL G DRIVE C9003 4.7/6.3V R9023 47K B DRIVE LCD+5\ V-COM TO LCD I LUMINANCE 7 R9010 100 L9005 C9007 CD+3\  $\dot{\phi}$ R9022 C9011 0.1 R9033 33K 100 Q9005 UN5114 (SWITCHING) R9011 100 R9012 100 R9016 10K 1 UP/DOWN C9015 4.7/6.3V LCD-15\ C9022 2.2 Q9004 DTC124EU (SWITCHING) IC9002 TA75S558F85L (OP AMP) R9025 6800 3 C9018 2 L9003 15 LCD-15V 14 BL+4.5V 10 ⚠ L9051 T9051 ETJ11K95AM C9052 0.018 Q9051 2SD1119 (SWITCHING) C9053 C9055 15P 15P C9051 22/6.3V LAMP UNIT LSXY0146 Q9052 2SD1119 (SWITCHING) Ø<sup>TP9005</sup> BACKLIGHT UNLESS OTHERWISE SPECIFIED; WATTAGE OF RESISTORS IS 1/16W. LSJB8030 D Ε G Α

COMPARISON CHART IMPORTANT SAFETY NOTICE: OF MODELS & MARKS FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, COMPONENTS IDENTIFIED BY THE SIGN A HAVE MODEL REFER TO BEGINNING OF SCHEMATIC SECTION. SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, PV-D300 USE ONLY THE SPECIFIED PARTS. VM-D100 В PV-L550 С PV-L600 D PV-L650 Ε VM-L450 F Ζ Not Used REC VIDEO SIGNAL ← PB VIDEO SIGNAL LCD+7.5V 12 LCD+12V 11 LCD+5V 13 LCD+9V 8 L900615 6 REG+3.5V 9 R9001 4700 BRIGHTNESS 1 R9044 BRIGHTNESS C9001 T 0.1 R9003 TO LCD I ₹4700 R9007 R9008 R9009 10K 10K 10K C9044 IC9001 AN2545FHQ R9015 / RGB SIGNAL PROCESS 12K / LCD PANEL INDICATOR R9014 15K C9014 T 1500P 10K 10K 0.1 0.1 I C9013 CONTROL LCD PANEL UNIT 5 TP9006∅ C9005 C9008 R9004 1K R9005 1K R9017 0 R9018 0 R9019 0 D9001 MA111
D9002 M MA111
D9003 M MA111 → 37 → SERIAL → 38 → D/A → 39 → CONVERTER LCD LOAD 2 LCD PANEL DRIVE CONTROL SERIAL CLOCK 4 SERIAL DATA 3 CLK2 CLK3 TP9001 WF20 PTP9002 WF19 TP9003 WF21 L9004 GND H SYNC V SYNC SEPARATION SEPARATION DRIVE L9002 15 B-Y RGB SIGNAL G DRIVE PROCESS C9003 R9013 I C9010 22/6.3V 560 T 680P 4 R9023 30K B DRIVE LCD+5\ V-COM LUMINANCE 7 C9048 L9005 15 .CD+3\ **੶**ૣ૽ૣૣઌૣ૽૱૱૱૽ૢૼ૱૽ૢૼઌ૽૽ઌ૽૽ૢૡ ⊥ C9024 T 2.2 R9022 C9049 0.1 Z C9011 0.1 R9033 33K B-Y 5 R-Y 6 R9011 100 R9012 100 R9016 10K 1 UP/DOW R9028 C9025 UN5114 (SWITCHING) C9015 4.7/6.3V L9008 CD-15V C9004 M M C9022 2.2 C9041 Q9001 DTC124EU (SWITCHING) <sup>7</sup>R9039 10K R90%2 1K R90%9 1K R90%0 3000 IC9002 TA75S558F85L (OP AMP) R9025 6800 C9034 10/6.3V 3 C9035 R9038 C9018 79032 100K vcc R9037 150K AFC HORIZONTAL SEPARATION C9047 1 SEPARATION GND 2 IC9003 M52684BFP IC9004 TC7W04F (INVERTER) (V/H SYNC SEPARATION) TP9008 L9003 15 T9101 LSLT0030 R9045 <u>∱</u>L9101 68 R9048 1K R9047 C9103 R9102 10P 0 LCD-15V 14 +C9101 + 22/6.3V ⚠ BL+4.5V 10► LAMP UNIT LSXY0157 ◐ Ø<sup>TP9005</sup> ⚠ Q9101 2SD1119 (SWITCHING) BACKLIGHT UNLESS OTHERWISE SPECIFIED; WATTAGE OF RESISTORS IS 1/16W. LSJB8031 С D Ε G Α

# IC9001 RGB SIGNAL PROCESS/LCD PANEL INDICATOR CONTROL IC-DETAIL BLOCK DIAGARM, AN2545FHQ



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

Н

 MODEL
 MARK

 PV-D300
 A

 VM-D100
 B

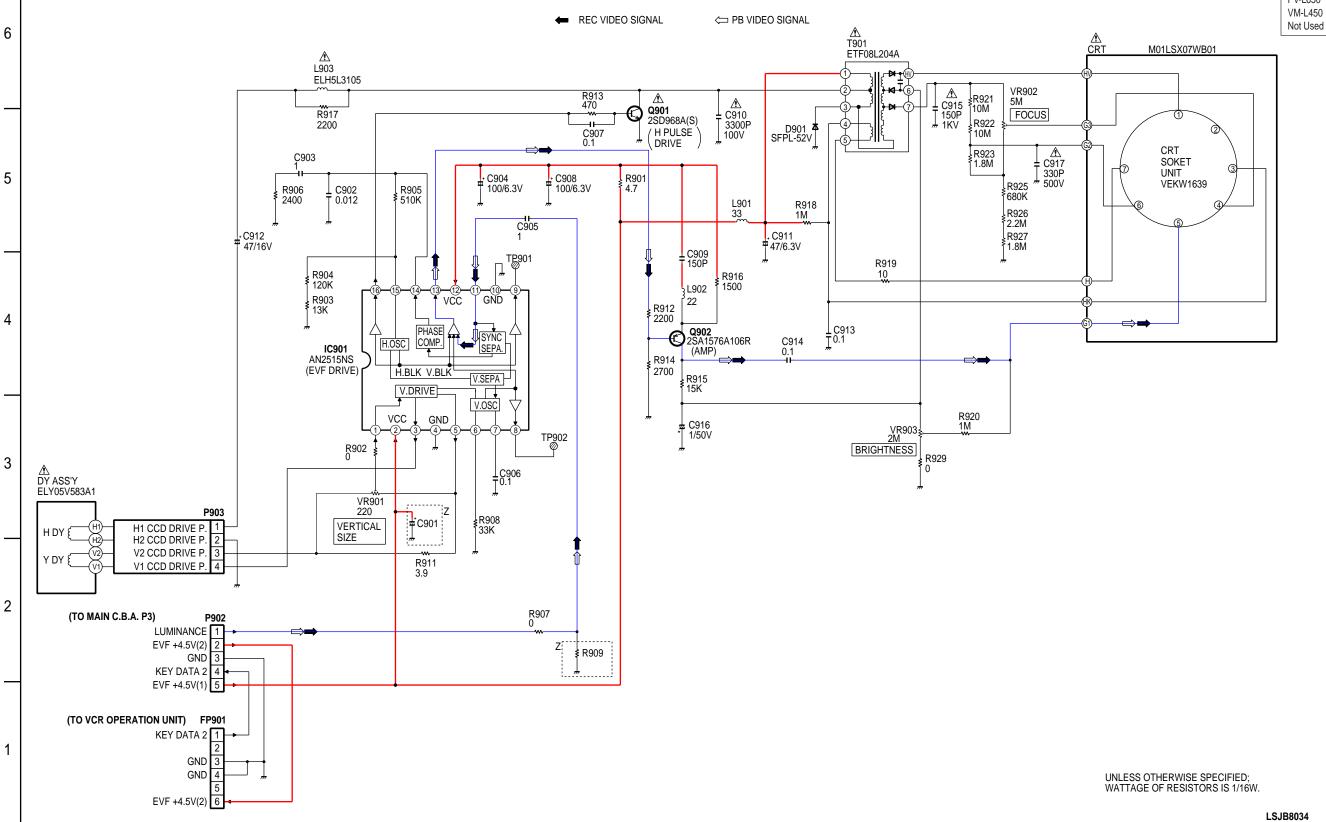
 PV-L550
 C

 PV-L600
 D

 PV-L650
 E

 VM-L450
 F

 Not Used
 Z



Ε

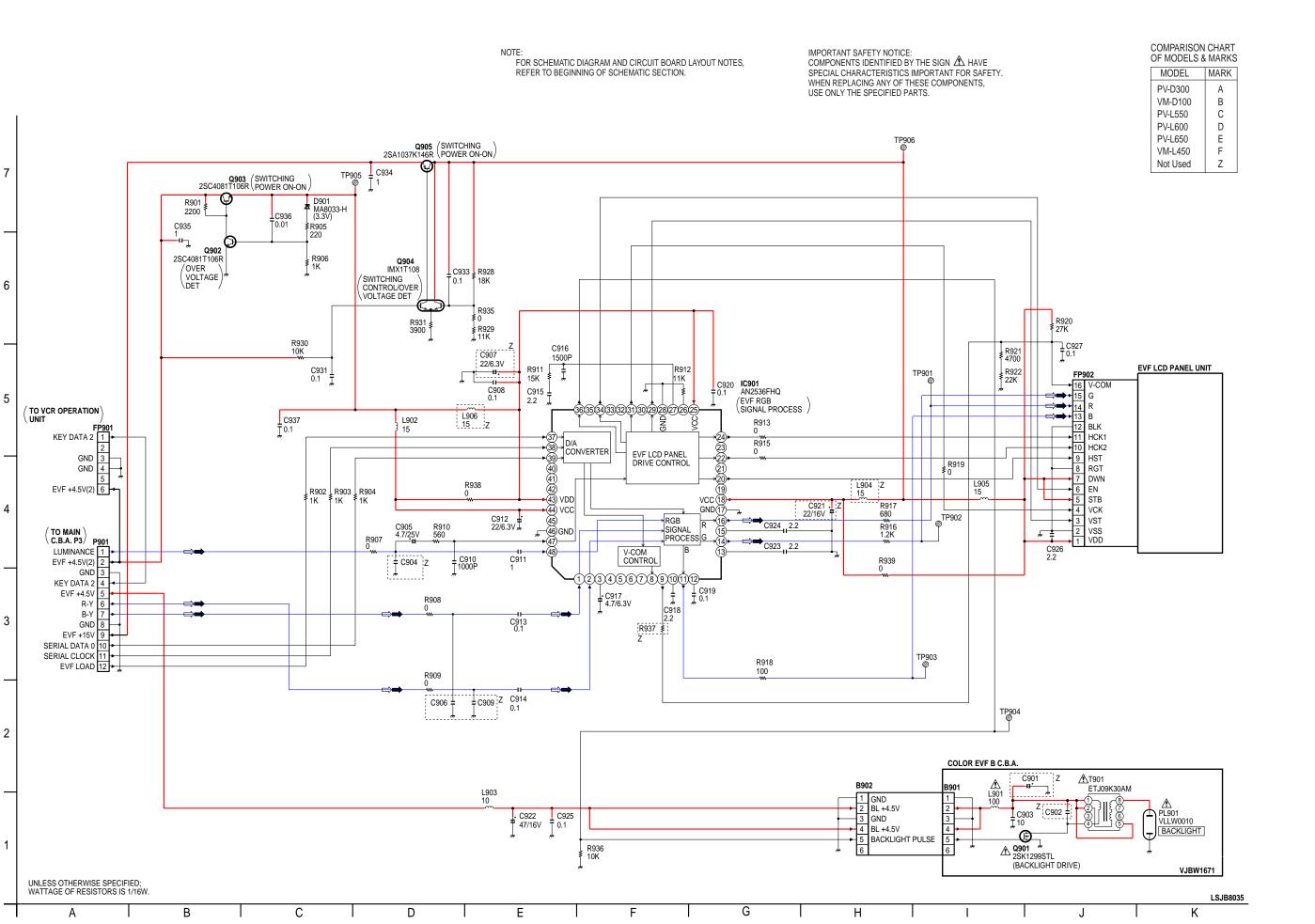
F

В

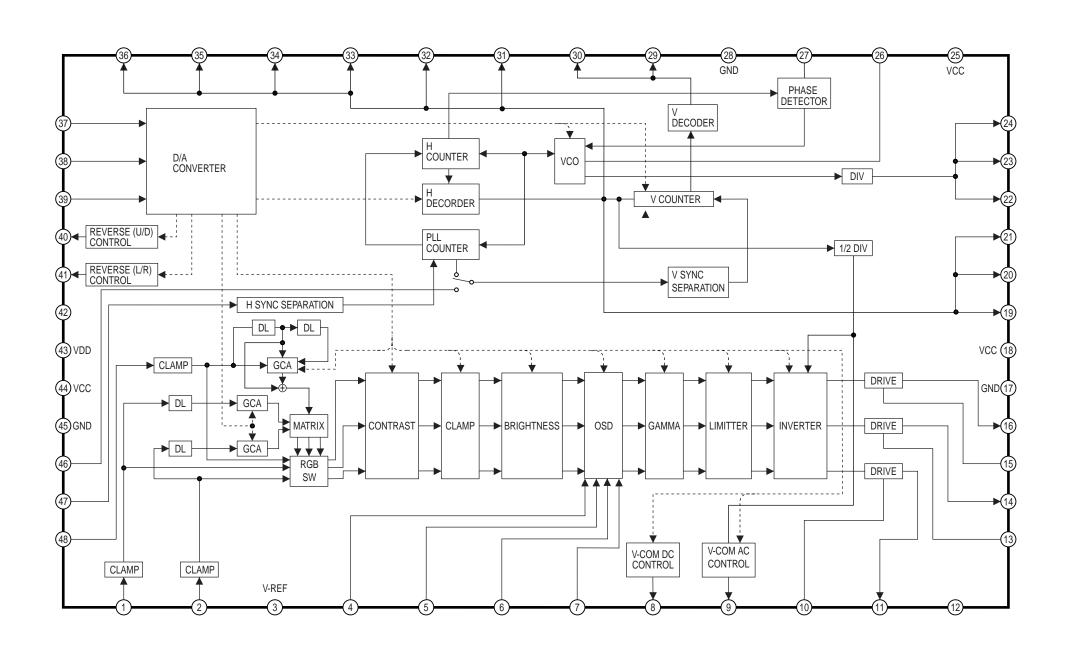
Α

С

D



# IC901 RGB SIGNAL PROCESS/LCD PANEL INDICATOR CONTROL IC-DETAIL BLOCK DIAGARM, AN2536FHQ



FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,

REFER TO BEGINNING OF SCHEMATIC SECTION.

**\*1** NOTE

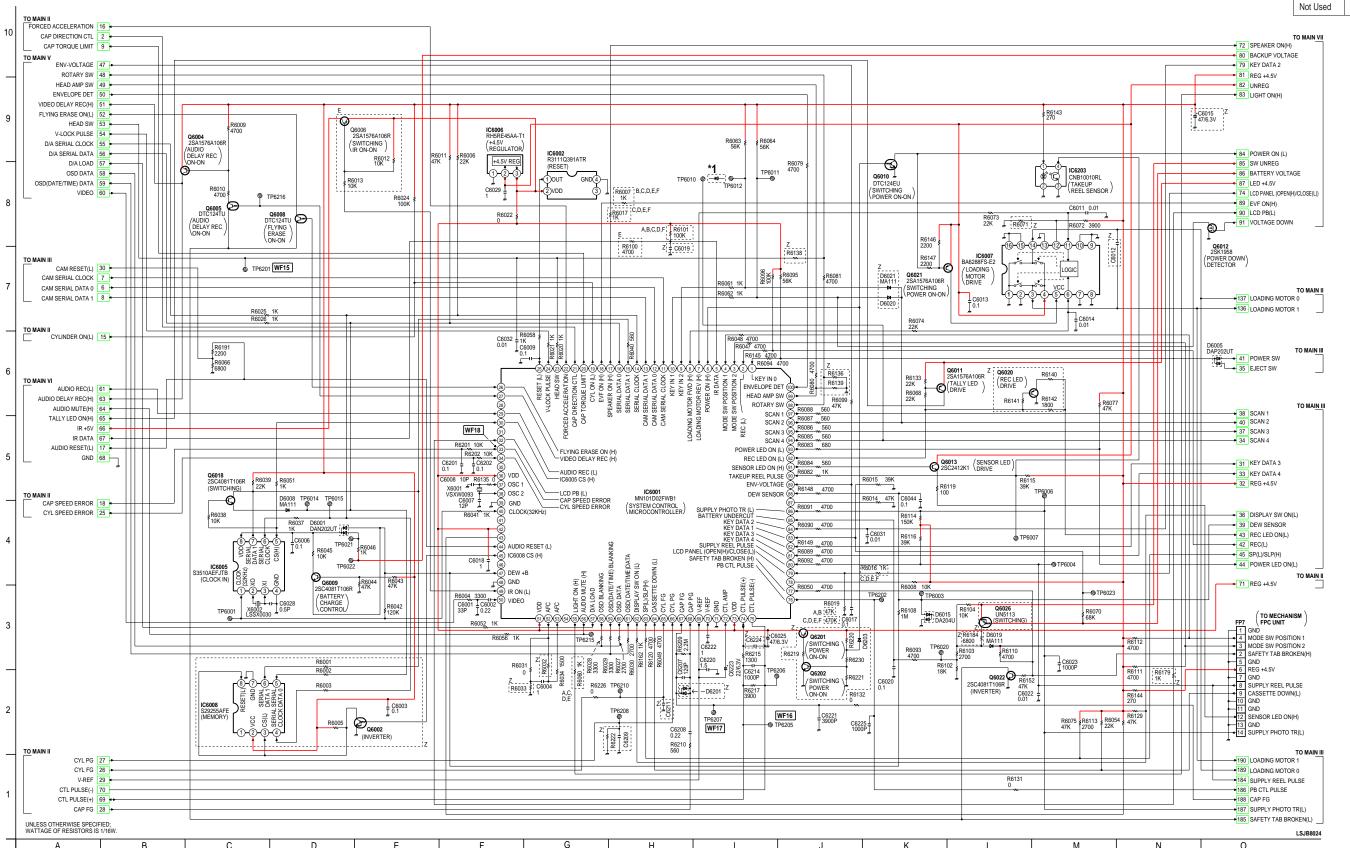
TO DEFEAT THE SAFETY FUNCTION, CONNECT A DIODE BETWEEN TP6010 AND TP6012, OR SELECT THE H. SAFETY DEFEAT IN SERVICE MODE. REFER TO NOTE1 OF "EXTENSION CABLES FOR SERVICE" IN SERVICE NOTES SECTION FOR MORE INFORMATION.

#### **IC6001 KEY MATRIX CHART** SCAN 4 (PIN 94) (PIN 95) KEY IN 0 (PIN 1) **POWER** EJECT OFF CAMERA VCR

C6001 KEY	MATRIX CI	HART				
VOLTAGE	0~0.18V	0.72~1.08V	1.62~1.98V	2.52~2.88V	3.42~3.78V	4.32~4.50V
KEY DATA 2 (PIN 84)	STOP	PLAY	FF/SEARCH	REW/ SEARCH	STILL	
KEY DATA 3 (PIN 82)	LIGHT (ON)	LIGHT (AUTO)				LIGHT (OFF)
KEY DATA 4 (PIN 81)	UP	DOWN	TITLE		MENU	

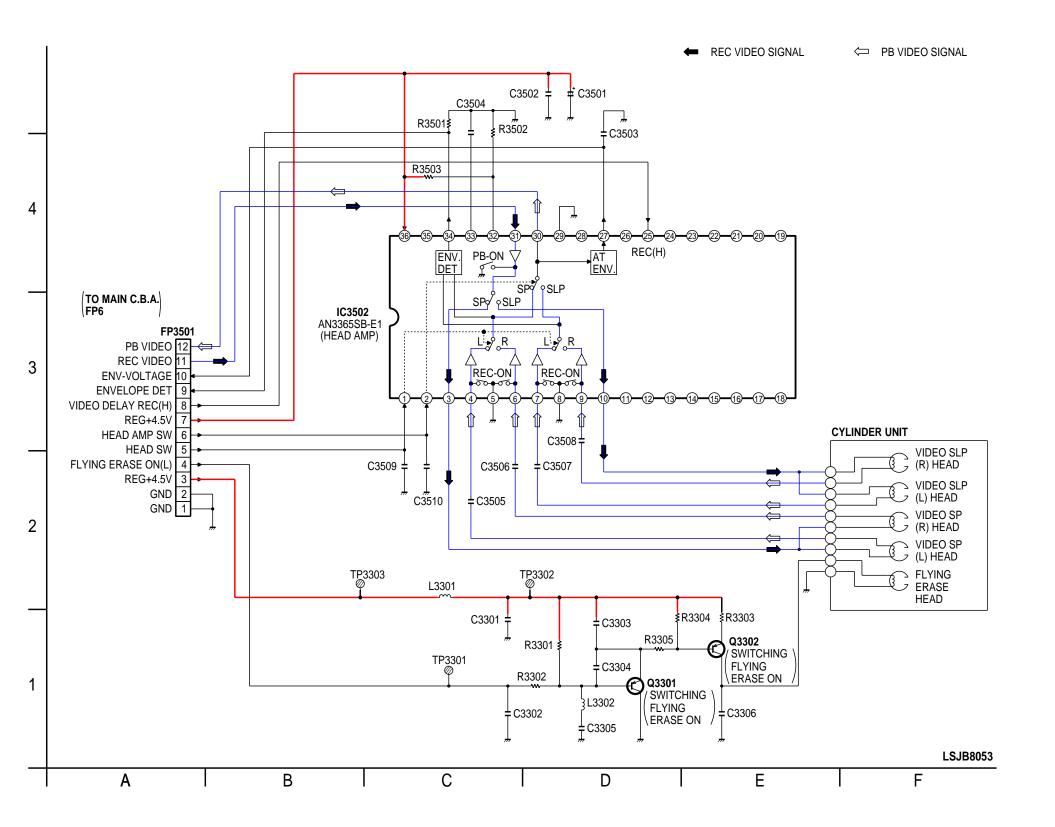
OF MODELS & MARKS MODEL PV-D300 VM-D100 PV-I 550 PV-L600 PV-L650 VM-L450 Ζ

COMPARISON CHART

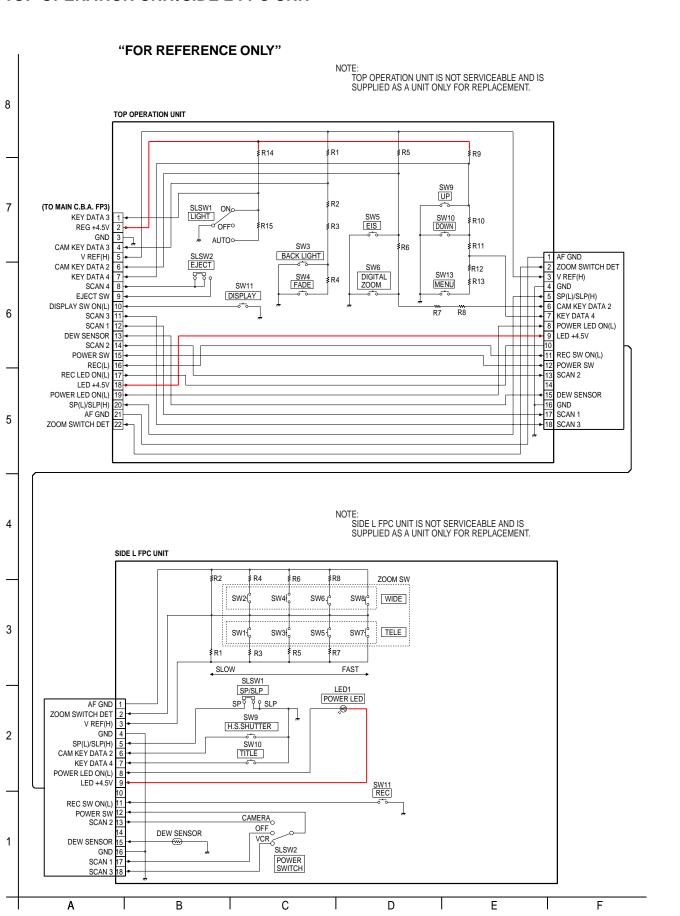


NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.



# TOP OPERATION UNIT/SIDE L FPC UNIT



NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

COMPARISON CHART

OF MODELS & MARKS

MARK

В

С

D

Ε

MODEL

PV-D300 VM-D100

PV-L550

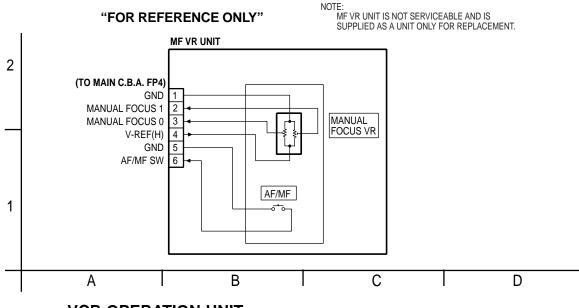
PV-L600

PV-L650

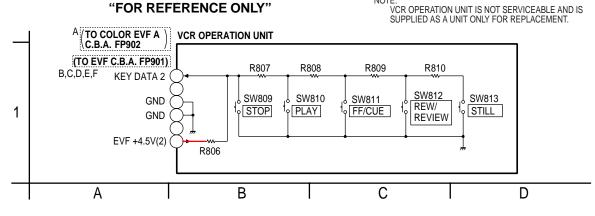
VM-L450

Not Used

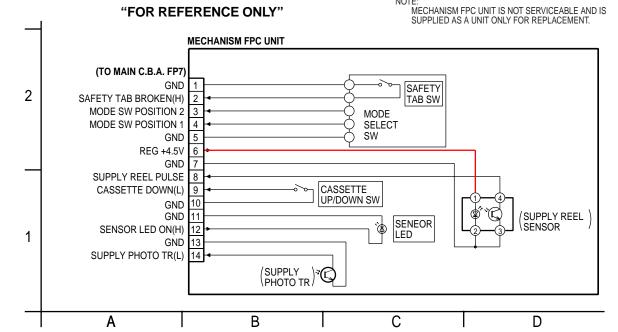
# MF VR UNIT



# **VCR OPERATION UNIT**



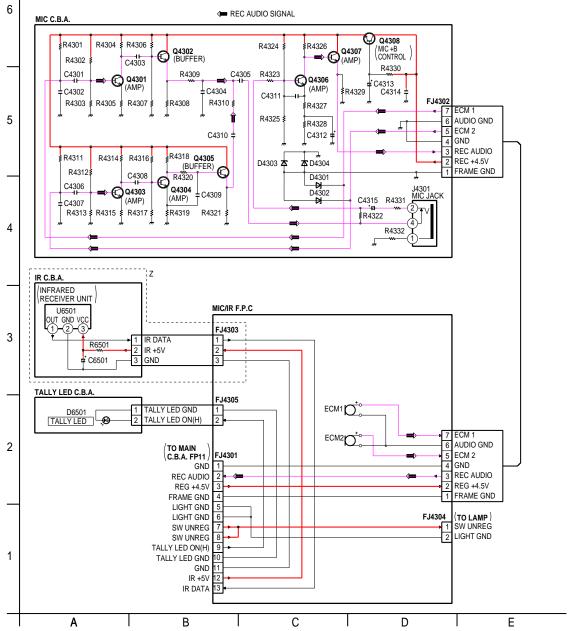
# MECHANISM FPC UNIT



MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F
Not Used	Z

# MIC/IR UNIT

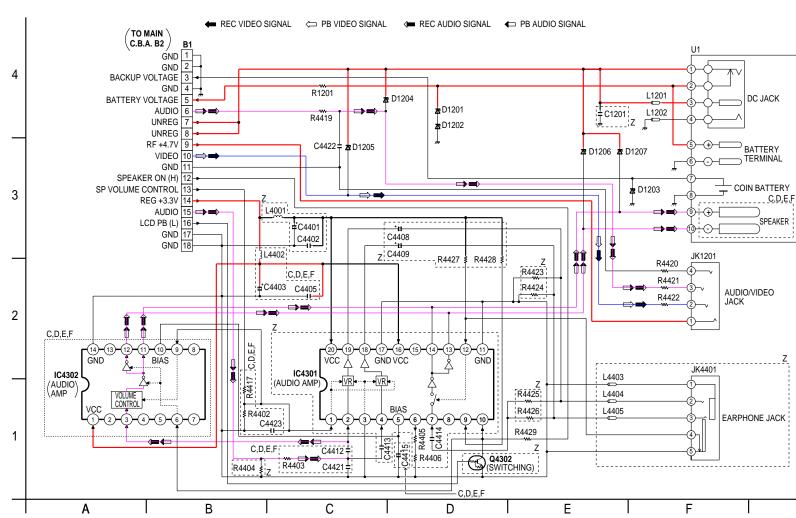




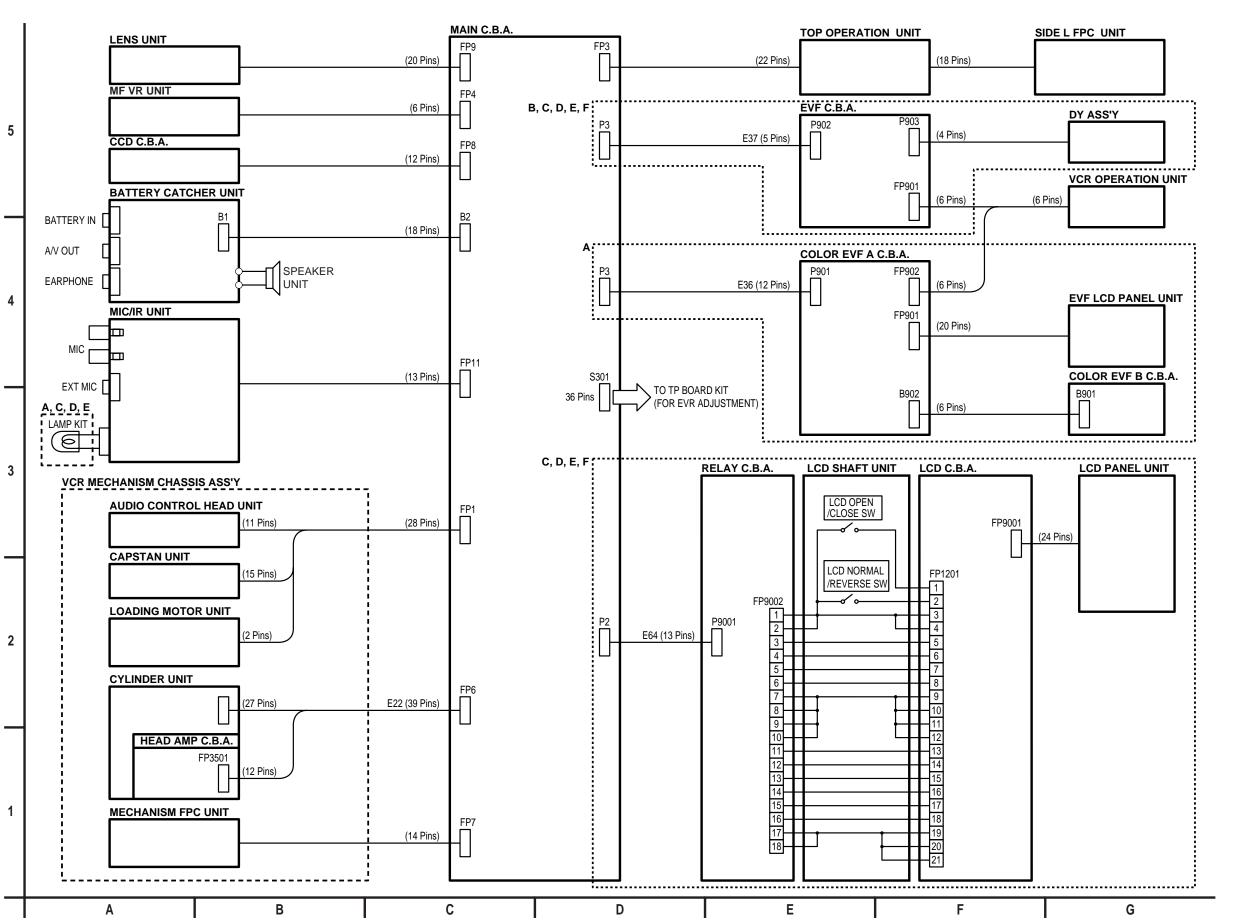
# **BATTERY CATCHER UNIT**

# "FOR REFERENCE ONLY"

IOTE:
BATTERY CATCHER UNIT IS NOT SERVICEABLE AND IS
SUPPLIED AS A UNIT ONLY FOR REPLACEMENT.



MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F
Not Used	Z

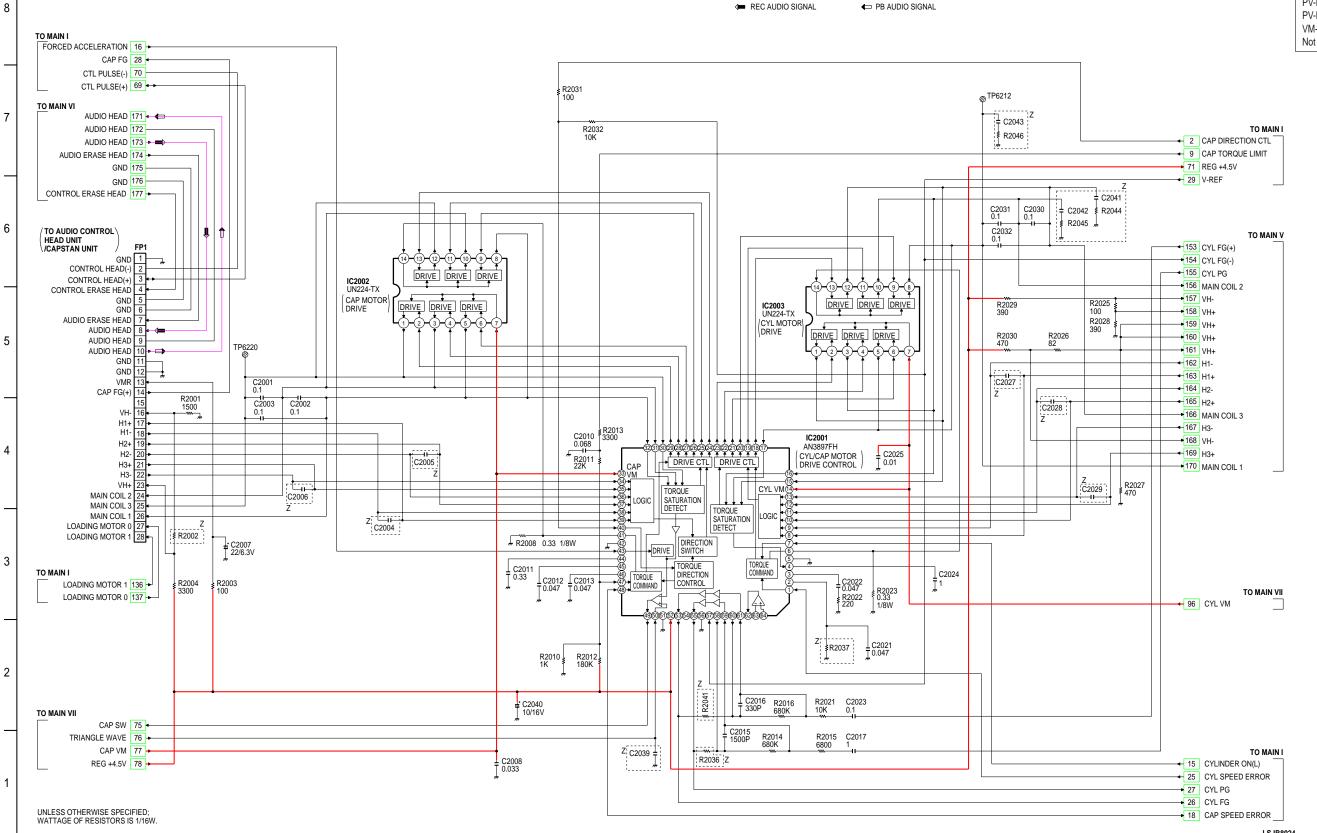


NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

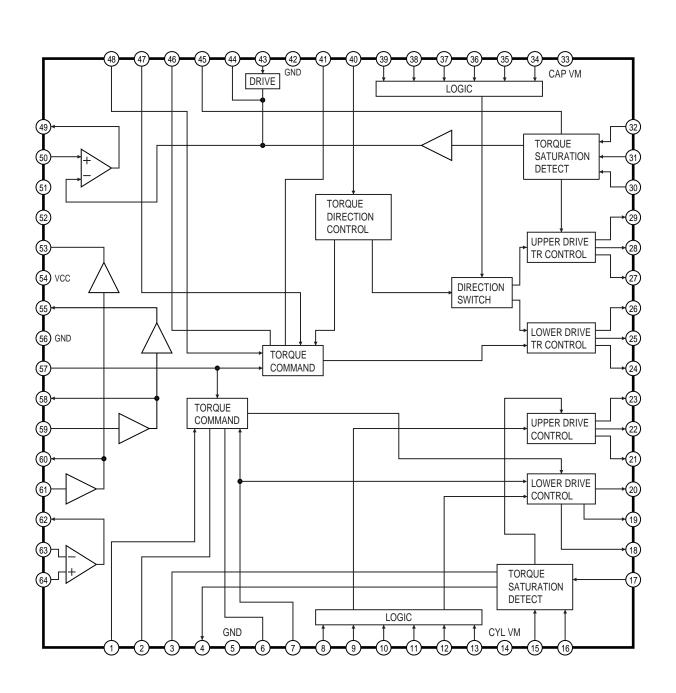
MODEL MARK

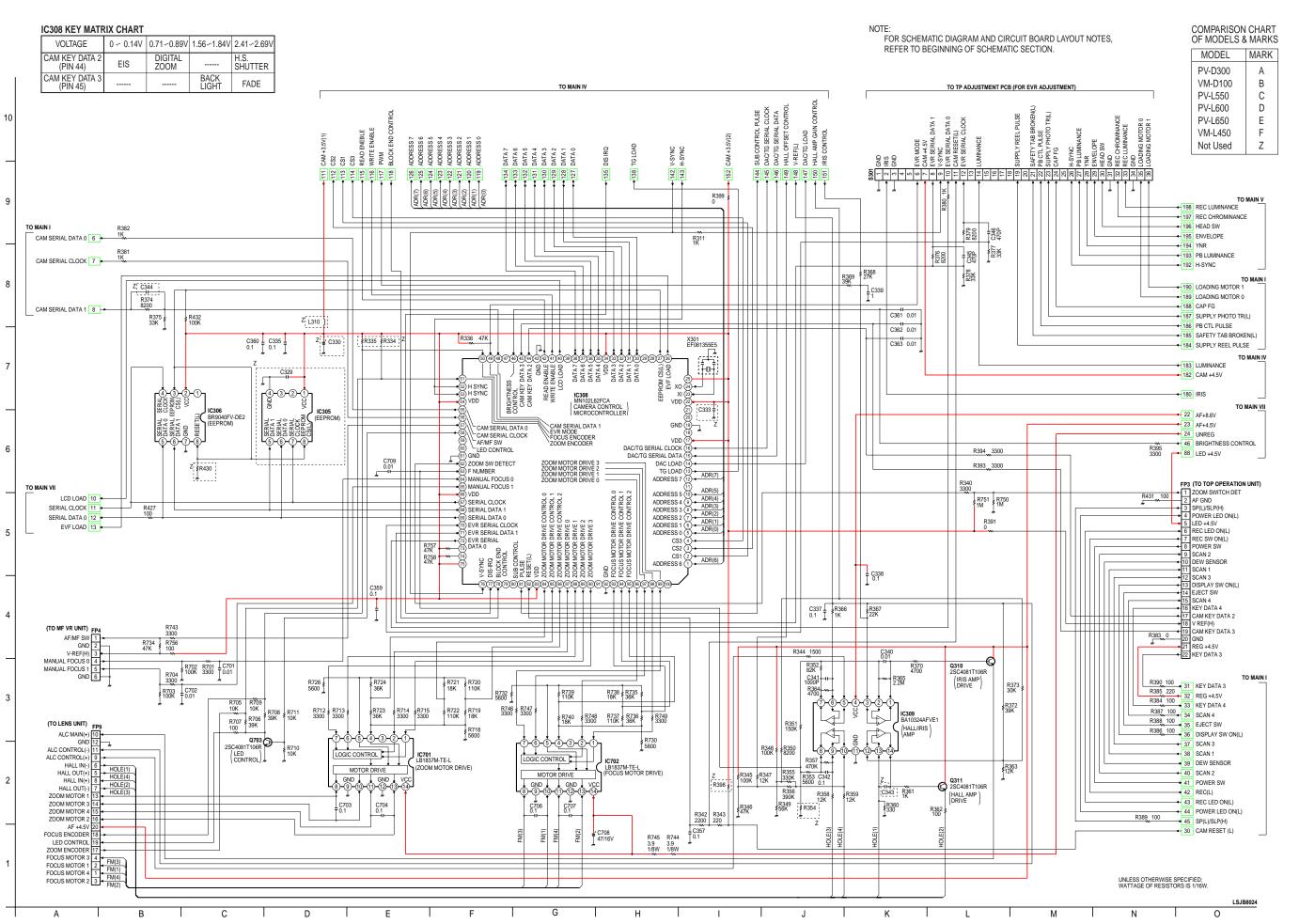
PV-D300 A
VM-D100 B
PV-L550 C
PV-L600 D
PV-L650 E
VM-L450 F
Not Used Z



G

Ε





# 2 PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an antistatic solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

#### **CAUTION:**

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

# 3 X-RADIATION (Model: B, C, D, E, F)

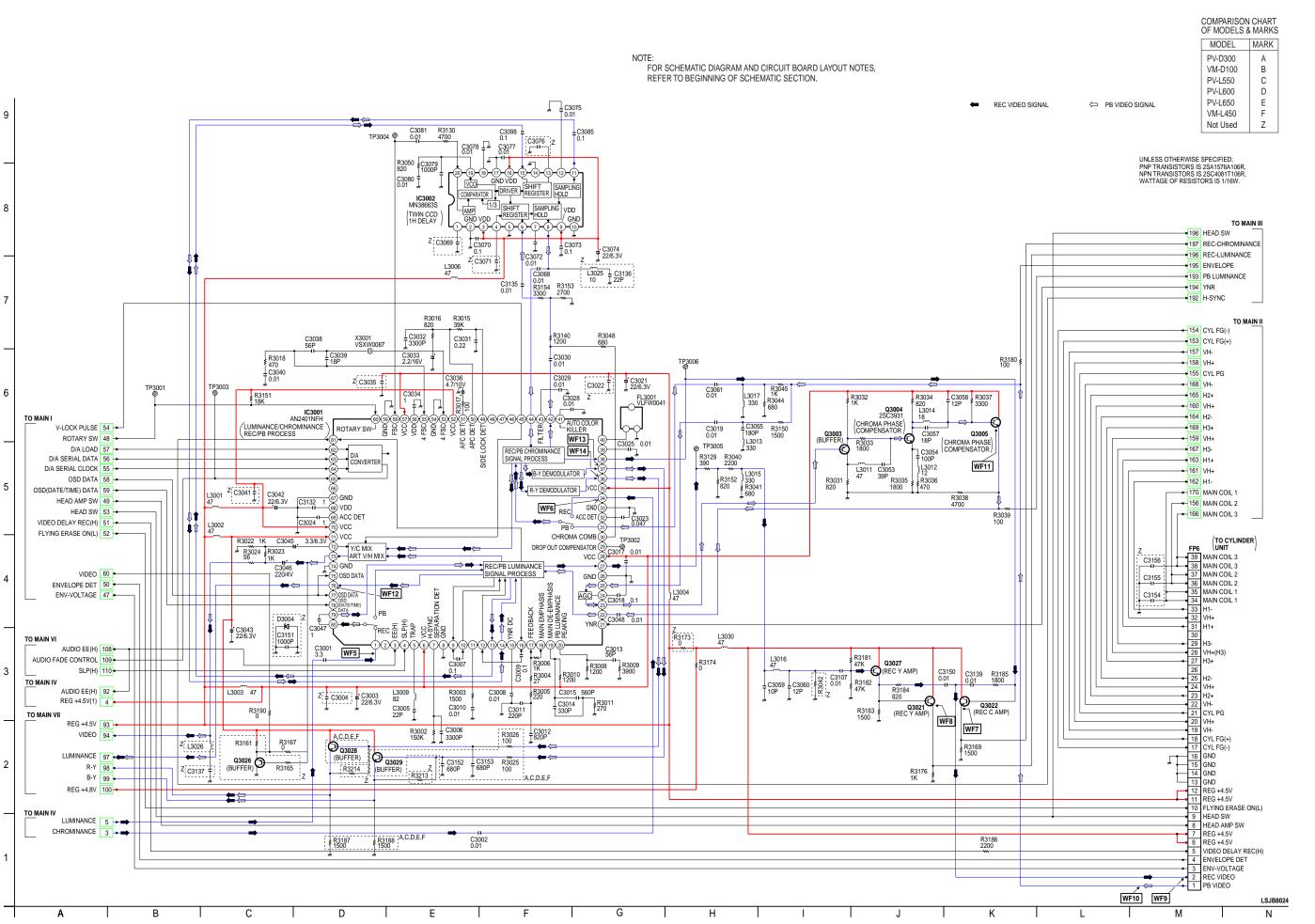
#### **WARNING:**

- The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that jig is capable of handling 10 kV without causing X-Radiation.

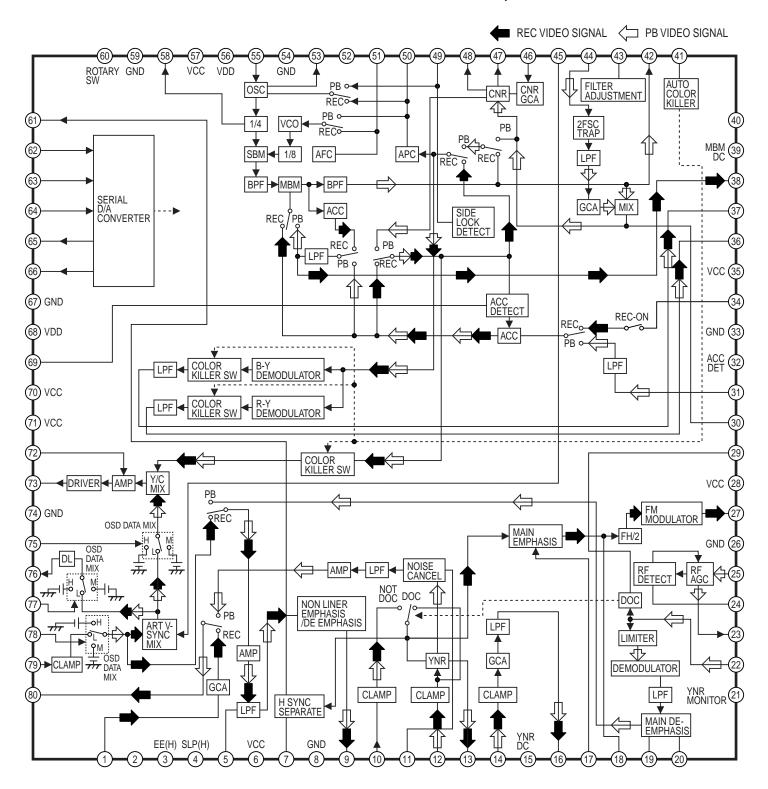
#### NOTE:

It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electrostatic type) reading should indicate 2.2 kV±0.1 kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.



# IC3001 VIDEO/AUDIO PROCESS IC-DETAIL BLOCK DIAGRAM, AN2401NFH



# MAIN C.B.A. (CAI

		. (CAMERA	1 250
\MODE	CAMERA	\MODE	CAMERA
PIN NO.		PIN NO.	
IC301		55	3.5
1	0.1	56	0
2		57	3.5
3			3.3
		58	
4		59	
5		60	0
6		61	3.5
7		62	
8		63	
9		64	
10		65	
11		66	
12		67	
13		68	
14		69	1.7
15	3.5	70	0
16	0	71	0
17		72	2.0
18		73	1.1
19		74	1.8
20		75	3.5
21		76	0
22		77	3.2
23		78	2.9
24		79	0
25		80	3.5
26		81	1.8
27	0	82	1.1
28	3.5	83	0
29		84	1.8
30		85	3.5
31		86	0
32		87	0
33		88	
34		89	1.7
35		90	1.8
36		91	0
37		92	0
38		93	3.5
39	0	94	
40	0	95	
			2 5
41	0	96	3.5
42	0	97	0.1
43	0	98	1.1
44		99	3.2
45	0.1	100	0
46	1.8	101	0.2
47		102	0.4
48		103	3.5
49		104	3.5
50	3.3	105	
51	0	106	0
52	3.5	107	3.5
53	0	108	1.8
54	0.1	109	3.5
<u> </u>	U. I	_ 100	0.0

MERA	A SEC	TION)	
MODE	CAMERA	MODE	CAMERA
PIN NO.	OF NVILIVA	PIN NO.	O WILIVA
	0.5		
55	3.5	110	1.4
56	0	111	3.3
57	3.5	112	1.9
58		113	0
59		114	3.5
60	0	115	0.4
61	3.5	116	0.4
62		117	0.2
63		118	0.3
64		119	0
65		120	3.5
66		121	0.4
67		122	0.2
			3.5
68 69		123 124	0.8
	1.7	t t	
70	0	125	1.5
71	0	126	2.8
72	2.0	127	0.5
73	1.1	128	0.6
74	1.8	129	0.8
75	3.5	130	1.7
76	0	131	0.8
77	3.2	132	2.2
78	2.9	133	0.5
79	0	134	0
80	3.5	135	3.6
81	1.8	136	1.0
82	1.1	137	
83	0	138	1.7
84	1.8	139	0
85	3.5		0
		140	
86	0	141	0
87	0	142	0
88		143	0
89	1.7	144	0
90	1.8	IC306	
91	0	1	
92	0	2	3.5
93	3.5	3	0.3
94		4	3.5
95		5	3.5
96	3.5	6	0.7
97	0.1	7	0.4
98	1.1	8	3.5
99	3.2	IC308	0.0
100		1	
	0		0.4
101	0.2	2	0.1
102	0.4	3	
103	3.5	4	
104	3.5	5	2.8
105		6	1.5
106	0	7	0.8
107	3.5	8	3.5
108	1.8	9	0.2
109	3.5	10	0

MODE	CAMERA	MODE	CAMERA
IN NO.\		PIN NO.	
11	0	66	3.5
12	0.2	67	0
13	3.5	68	1.9
14		69	3.5
15	0.4	70	1.7
16	3.4	71	0.2
17	3.5	72	3.5
18	1.6	73	3.2
19	0	74	3.2
20	0	75	
21	3.4	76	0.2
22		77	0
23	1.0	78	0
24	1.8	79	0.6
25	3.5	80	0.6
26	0	81	0
27	3.5	82	3.4
28	0	83	3.5
29	0	84	3.5
30	0.8	85	3.5
31	1.9	86	
32	0.7	87	0
33	0.7	88	0
34		89	0
35		90	0
36	0.6	91	0
37	0.7	92	0
38	0.8	93	
39	0	94	3.5
40	0	95	
41	3.5	96	
42	3.5	97	0
43	0	98	0
44	0.8	99	0
45	0.8	100	0
46	0.9	IC309	
47	0	1	2.8
48	0.5	2	1.5
49	3.3	3	1.9
50	2.8	4	8.1
51	2.6	5	1.3
52	0.4	6	1.4
53	0.4	7	1.4
54		8	2.5
55		9	0.9
56	3.5	10	1.2
57	3.2	11	0
58	0	12	0.7
59	0	13	0.7
60	0	14	0.3
61	0	IC602	
62	1.8	1	0
63	2.7	2	1.7
64	0.9	3	1.7
65	1.0	4	0.4

\MODE PIN NO.\	CAMERA
5	1.6
6	1.5
7	
8	0.7
9	0.7
10	0.6
11	0.6
12	0.9
13	0.2
14	
	0.4
15	0.1
16	
17	0.4
18	0.2
19	
20	3.2
21	
22	1.2
23	0
24	0
25	3.5
26	3.5
27	
	0.2
28	0.2
29	3.3
30	0.4
31	3.5
32	3.5
33	3.5
34	0
35	1.0
36	0.3
37	0.3
38	3.5
39	
40	0
41	
42	0.7
43	1.1
44	0.1
45	0.2
46	0.2
47	1.5
48	
49	1.6
50	0.3
51	
52	
53	
54	
55	
	3.5
56	
57	3.5
	3.5 1.6 1.6

MODE	CAMERA	MODE	CAMERA
PIN NO.	O/ WILI U V	PIN NO.	O/ WILL V
60		29	4.4
61	3.5	30	
62	3.5	31	2.1
63	3.5	32	
64	3.5	33	2.0
IC603	3.5	34	
1	0 1	35	2.0
	-8.1	36	
2	-8.0		4.4
3	-0.2	37	0.3
4	0	38	2.1
5	0.4	39	2.1
6	3.5	40	4.4
7	0.1	41	0
88	3.5	42	2.5
9	0.1	43	2.7
10	3.5	44	2.4
11		45	0.1
12	3.3	46	2.0
13	3.5	47	3.3
14	3.3	48	0.4
15	0	IC701	
16	15.0	1	0.2
17	-7.6	2	0.4
18	-7.6	3	
19	0	4	0.9
20	15.0	5	0.9
IC605		6	0.1
1	0	7	0.2
2	1.9	8	0.5
3		9	0
4		10	0.5
5	1.7	11	0.5
6	4.4	12	0.0
7	1.8	13 14	0.5
8	1.9		7.2
9	1.8	IC702	0.4
10	3.5	1	0.1
11	0.2	2	0.1
12	0	3	0.5
13		4	0.7
14		5	0.9
15		6	0.1
16		7	0.1
17	3.3	8	0.5
18	1.7	9	0
19	3.3	10	0.6
20	1.2	11	0.6
21	0.3	12	0
22	0.2	13	0.6
23		14	7.2
24	0.7		
25	0.1	Q301	
26	0	Е	2.5
27	0.4	С	4.5
28	2.7	В	3.2

MODE	CAMERA
PIN NO.	OFWILITY
Q302	4.5
E	1.5
С	3.2
В	2.2
Q303	
Е	1.8
С	0
В	1.2
Q305	
Е	3.0
С	4.5
В	3.1
Q306	0.1
	2.2
E C	2.2 4.5
В	2.9
Q307	_
Е	2.6
С	4.5
В	3.1
Q310	
E	3.4
С	4.5
В	2.2
Q311	
E	2.0
С	4.5
В	2.7
Q617	
E	1.3
C	4.4
В	1.9
Q703	1.5
	0
E C	0
	3.3
В	1.6
TP601	1.6
	I

# MAIN C.B.A. (POWER SUPPLY/VIDEO/AUDIO SECTION)

\ <u>MODE</u> PIN NO.\	REC	PLAY
10100.		
IC1001		
1	0.2	0.1
2	1.7	1.7
3	1.2	1.3
4	1.3	1.2
5	1.0	5.6
6	1.3	1.3
7	1.2	1.2
8	2.1	
9	1.5	1.9
	0.2	
10	0.2	0.2
11	6.9	6.9
12	7.3	7.3
13	3.9	4.0
14	7.0	7.1
15	2.4	2.4
16	6.9	6.9
17	6.6	6.7
18	0.4	0.4
19	0.5	0.5
20	6.5	6.6
21		
	6.8	6.7
22	1.8	1.8
23	7.1	7.1
24	1.9	1.9
25	6.8	6.6
26	6.5	6.5
27	0.4	0.4
28	0.2	0.2
29	1.6	1.6
30	0.9	1.2
31	1.2	1.2
32	1.2	0.2
33	0.9	0.2
34	1.0	1.5
35	1.0	0.1
36	1.0	0
37	6.9	7.0
38	2.4	2.4
39	0	0
40	0	0
41		
42	0	0
43		
44	1.0	1.0
45	1.6	1.6
46	2.4	2.4
47	1.7	1.6
48	0	2.4
IC3001		
1	1.7	2.6
2		
3	3.7	0.1
4	0.1	0.1
5	2.1	1.9

 ( 301	L 1/\	/IDEC	<i>.</i> ,	
MODE	REC	PLAY		MODE
PIN NO.\			l	PIN NC
6	4.5	4.5		61
7	2.0	2.3		62
8	0	0		63
9	2.1	0.3		64
10	2.1	2.1		65
11	0.3	1.1		66
12	0	2.1		67
13	1.5	2.2		68
14	2.0	2.2		69
15	2.7	1.6		70
16	0.2	2.2		71
17	2.2	2.1		72
18	2.2	2.1		73
19	2.5	3.0		74
20	2.1	1.5		75
21	2.2	2.7		76
22	2.7	2.5		77
23	3.4	2.0		78
24	2.7	2.9		79
25	2.5	2.8		80
26	0	0		IC300
27	3.2	3.6		1
28	4.4	4.4		2
29	2.3	2.3		3
30	0	2.1		4
31	2.1	2.0		5
32	2.9	3.0		6
33	0	0		7
34	2.4	2.9		8
35	4.5	4.5		9
36	2.5	2.5		10
37	2.5	2.5		11
38	0.3	0.4		12
39	2.8	2.7		13
40	0.2	2.3		14
41	1.3	1.3		15
42	0.8	2.2		16
43	3.0	3.0		17
44	0.9	2.8		18
45	0.2	0.2		19
46				20
47				IC400
48				1
49	1.8	1.9		2
50	2.0	2.0		3
51	2.1	2.0		4
52	4.5	4.5		5
53 54	2.2	2.2		6
54 55	0	0		7
55 56	1.2	2.7		8
57	4.5	3.6 4.1		9 10
58	3.0	3.0		10 11
59	0	0		12
60	4.3	2.7		13
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\MODE	REC	PLAY
PIN NO.	•	
61	0.5	0.5
62		0.3
	0	4.5
63	4.5	
64	4.5	4.5
65	0.3	1.9
66		
67	0.6	0
68	3.6	3.6
69	2.1	3.6
70	4.5	4.5
71	4.5	4.5
72	1.8	4.5
73	2.1	2.8
74	0	0
75	0.6	0.2
76	2.3	3.7
77	0.3	0.1
78	0.1	0.1
79	2.5	2.9
80	2.1	2.8
IC3002		
1	1.0	2.1
2	0	0
3	4.5	4.5
4	1.9	2.8
5	0	0
6	1.8	2.6
7	1.6	1.6
8	2.8	2.8
9	4.5	4.5
10	0	0
11	2.5	2.8
12	2.4	2.5
13	1.8	2.9
14	0	0
15	2.5	2.7
16	4.5	4.5
17	0	0
18	2.0	2.2
19	2.3	
~		2.3
20		2.3
20	0.9	2.0
IC4001	0.9	2.0
IC4001 1	2.2	2.0
1 2	2.2 2.3	2.0
1 2 3	2.2 2.3	2.0 2.3 2.3
1 2 3 4	2.2 2.3	2.0
1 2 3 4 5	2.2 2.3  2.3 0.6	2.0 2.3 2.3  2.3 0
1 2 3 4	2.2 2.3  2.3	2.0 2.3 2.3  2.3
1 2 3 4 5	2.2 2.3  2.3 0.6	2.0 2.3 2.3  2.3 0
1 2 3 4 5 6 7	0.9  2.2 2.3 2.3 0.6 0.2 1.7	2.0 2.3 2.3  2.3 0 1.3 1.7
1 2 3 4 5 6 7	2.2 2.3  2.3 0.6 0.2 1.7	2.0 2.3 2.3  2.3 0 1.3 1.7
1 2 3 4 5 6 7 8	2.2 2.3  2.3 0.6 0.2 1.7 0.1 2.3	2.3 2.3 2.3  2.3 0 1.3 1.7 0.1 2.3
1 2 3 4 5 6 7 8 9	2.2 2.3  2.3 0.6 0.2 1.7 0.1 2.3 4.0	2.3 2.3 2.3 0 1.3 1.7 0.1 2.3 3.7
1C4001 2 3 4 5 6 7 8 9	2.2 2.3  2.3 0.6 0.2 1.7 0.1 2.3 4.0	2.0 2.3 2.3  2.3 0 1.3 1.7 0.1 2.3 3.7
1 2 3 4 5 6 7 8 9	2.2 2.3  2.3 0.6 0.2 1.7 0.1 2.3 4.0	2.0 2.3 2.3  2.3 0 1.3 1.7 0.1 2.3 3.7

MODE	REC	PLAY	
PIN NO.			
14	2.3	2.3	
15	0.1	0	
16	0.1	1.4	
17	1.2	0	
18	2.9	2.7	
19	0	0	
20	0	0	
21			
22	0	0	
23	0	0	
24	1.7	1.7	
25	0.4	1.1	
26	1.6	1.7	
27	4.5 1.7	4.5 1.7	
28 29	4.5	4.5	
30	1.7	1.7	
31	2.3	2.3	
32	2.3	2.3	
Q1001	2.0	2.0	
E	7.2	7.1	
С	7.1	7.0	
В	0.1	0.1	
Q1002		•	
E	0	0	
С	0	0	
В	-0.6	-0.6	
Q1003			
Е	2.3	2.3	
С	0	0	
В	1.6	1.6	
Q1005			
E	7.2	7.1	
С	4.5	4.5	
В	6.7	6.6	
Q1006			
E	7.2	0	
С	3.6	3.6	
В	6.8	0	
Α	0	0	
Q1007			
E	0	0.1	
С	0	0.1	
В	7.0	6.9	
Q1008	7.0		
E	7.2	7.1	
С	4.6	4.6	
B A	6.6	6.6	
Q1009	U		
Q1009 E	6.1	0.1	
C	1.6	0.1	
В	6.8	6.7	
A	0.0	0.7	
,,	,		

MODE	DEO 1	DI A\/ 1
MODE PIN NO.	REC	PLAY
Q1010		
E	5.0	5.6
	5.9	5.6
С	0	0
B	6.1	5.9
Q1011	4.0	
E1	1.9	1.9
C1	6.6	6.5
B1	2.4	1.3
E2	1.9	1.4
C2	0.2	4.8
B2	0.1	2.5
Q1012		
E	7.2	7.1
С	4.8	4.8
В	6.6	6.5
Q1014		
E	7.2	7.0
С	7.1	7.0
В	1.5	6.3
Q1015		
E	3.9	3.8
C	6.5	6.3
В	4.5	4.5
Q1020		
E	4.6	4.6
C	0	2.0
В	4.6	4.6
Q1021	+.0	7.0
E	0	
	0 4.6	0 4.4
С		
B	0.1	0.9
Q1101	7.0	7.4
E C	7.2	7.1
	1.7	1.5
В	7.2	7.1
Q1102		
E	0	0
С	7.8	7.1
В	-0.1	0
Q1103		
E	7.2	7.1
С	7.2	7.1
В	7.2	0.1
Q1104		
Е	0	0
С	0	0.1
В	0	0
Q1105	-	-
E	7.2	7.1
C	0	0.7
В	7.2	0.7
Q1106	1.4	0.5
	0	0
E C	0.2	0
<u>С</u>	0.2	0

B 0.1 0

MODE	REC	PLAY
PIN NO.		
Q3003		
Е	4.1	2.6
С	0	1.6
В	4.3	2.0
Q3004	7.0	2.0
E	0	1.9
С	3.4	3.8
В	3.3	2.6
Q3005		
E	0	3.2
С	4.5	4.5
В	3.4	3.8
Q3021		
Е	1.2	1.2
С	4.8 1.7	4.8
В	1.7	1.7
Q3022		
Е	1.7	0.1
С	4.8	4.8
В	2.3	0.4
Q3027		0
E	1.7	1.8
С	4.8	4.8
В	2.3	
	2.3	2.3
Q3028	4.0	4.0
E	1.9	1.9
С	4.5	4.5
В	2.5	2.5
Q3029		
E	1.9	1.9
С	4.5	4.6
В	2.5	2.5
Q4002		
E1	5.3	3.5
C1	4.4	3.6
B1	4.6	3.8
E2	4.5	4.0
C2	1.4	4.5
B2	4.6	4.5
Q4003	7.0	7.5
	0.2	
E	0.2	0
С	0	0
В	0.5	0.8
Q4004		
E	0.2	0
С	0	0
В	-0.5	0.8
Q4007		
Е	0	0
С	-0.2	-0.5
В	0.1	1.1
Q4008		
Е	0	0
C	0	0
	-	

\MODE	REC	PLAY
PIN NO.		
Q4009		
E	0	0.4
С	0.2	4.3
		-
В	0.2	0.1
Q4010		
E	4.6	4.5
С	0	0
В	0 4.3	5.0
Q4011		
Е	0.2	1.4
C	4.5	4.5
В	0.2	1.9
TP1001	4.6	4.6
TP1002	4.6	4.6
TP1003		15.0
TP1004	8.1	8.2
TP1005		-8.1
TP1006	3.6	3.6
TP1007	4.6	4.6
TP3001	2.7	2.7
TP3002	2.6	2.5
TP3003	0.4	2.0
TP3004	2.9	3.9
TP3005	3.2	
		3.6
TP3006	2.6	0.4
TP4001	1.4	1.4
TP4002	0	0
TP4003	0	0.1
TP4004	0.1	1.3

#### NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

# MAIN C.B.A. (SYSTEM CONTROL/SERVO SECTION)

1 2 3 4	2.2 0.6 0.6	2.0	2.0
1 2 3	0.6		2.0
2 3	0.6		
3		0.6	0.1
		0.7	0.1
. 4	2.9	3.0	2.9
5	0	0	0
6	0	0	0
7	0.1	0.1	4.6
8	2.3	2.3	2.3
9	2.3	2.3	2.3
10	2.2	2.2	2.3
11	2.3	2.3	2.3
12	2.3	2.3	2.3
13	1.8	2.3	2.3
14	7.1	7.0	7.3
15	1.6	1.9	0
16	2.1	2.0	0
17	1.6	1.9	0
18	0.4	0.9	0.7
19	0.6	0.5	0.7
20	0.4	0.7	0.1
21	6.8	6.6	6.8
22	6.7	6.5	6.8
23	6.7	6.6	6.8
24	0.6	0.6	0.1
25	0.4	0.6	0.1
26	0.4	1.3	0
27	1.6	1.1	4.2
28	1.7	7.0	4.2
29	1.6	2.0	4.3
30		2.0	0
	0.7		
31	0.7	0.9	0
32	0.7	0.9	0
33	1.6	1.8	6.5
34	2.2	2.2	2.2
35	2.2	0.7	2.2
36	1.8	0.8	1.7
37	1.7	0.8	1.7
38	1.2	1.2	1.2
39	1.2	1.2	1.2
40	0.1	0.7	2.3
41	0.1	0.7	0
-			
42	0	0	0
43	0	0.1	0
44	2.4	0.6	4.2
45	0.7	0.7	0.1
46	0.6	0.6	0
47	0.3	0.6	0.2
48	2.2	2.1	2.3
49	6.0	5.4	7.2
50	2.3	2.3	2.3
51	0	0	0
52	4.5	4.5	4.5
53	2.2	1.6	0.7
54			

TEN	и со	NTRO	L/SE	RVO	SECT	10
STOP		MODE PIN NO.	REC	PLAY	STOP	
		55	0.6	0.7	0.7	
2.0		56	0	0	0	
0.1		57	2.3	2.3	2.3	
0.1		58	2.3	2.3	2.3	
2.9		59	2.3	1.3	1.9	
0		60	2.3	2.3	2.3	
0		61	2.1	2.2	2.3	
4.6		62				
2.3		63				
2.3		64				
2.3		IC2002				
2.3		1	0.7	0.9	0	
		2	1.4	4.9	3.4	
2.3 2.3		3	0.7	0.9	0.3	
7.3		4	1.4	1.1	3.4	
		5		0.9		
0			0.7		0	
0		6	1.3	4.2	3.4	
0 7		7	1.6	1.1	6.4	
0.7		8	0.7	1.1	0	
0.7		9	0.5	0.8	0.1	
0.1		10	0.7	0.9	0	
8.8		11	0.5	0.4	0.1	
6.8		12	0.7	0.9	0	
6.8		13	0.4	0.4	0.1	
0.1		14	0	0	0	
0.1		IC2003	_		_	
0		1	0	1.9	0	
4.2		2	6.8	2.5	6.8	
4.2		3	0	4.6	0.3	
4.3		4	6.8	8.9	6.8	
0		5	0	2.0	0	
0		6	6.8	9.2	6.8	
0		7	7.2	7.0	7.2	
6.5		8	0	1.9	0	
2.2		9	0.7	0.4	0.7	
2.2		10	0	1.9	0	
1.7 1.7		11	0.7	0.9	0.7	
1.7		12	0	2.0	0	
1.2		13	0.7	0.4	0.7	
1.2		14	0	0	0	
2.3		IC6001				
0		1	2.7	2.7	3.7	
0		2	4.5	2.2	3.3	
0		3	4.1	4.6	0.3	
4.2		4	0.3	0.3	0.3	
0.1		5	3.2	3.3	3.3	
0		6	4.5	4.5	4.5	
0.2		7	0.1	0.1	0.1	
2.3		8	0.1	0.1	0.1	
7.2		9	3.7	3.7	0.2	l
2.3		10	3.8	0.1	0	
0		11	3.5	4.6	3.5	
4.5		12	1.8	1.5	1.2	
0.7		13	0.1	0.1	0.1	
-		14	4.5	4.5	4.5	
		_ ' →	7.0	т.Ј	-т.Ј	J

MODE PIN NO.	REC	PLAY	STOP
15	4.2	4.5	3.7
16	4.6	4.5	4.6
17	4.5	4.4	4.5
18	0.1	0.1	0
19	0.1	0.1	4.6
20	2.5	0.1	4.5
21			
	0.1	0.1	2.3
22	0.1	0.1	0.1
23	4.6	2.3	4.6
24	0.1	0.1	0.1
25	4.4	4.5	4.6
26	4.6	0	0.1
27	4.6	0	0
28			
29	0	4.5	4.6
30	0.3	0.3	0.2
31			
32	4.6	0	4.6
33	2.2	2.0	2.3
34	2.8	0	3.7
35			
36	4.6	4.5	4.6
37	2.3	2.3	1.5
38	1.6	2.3	2.3
39	0	0	0
40	0.3	0.8	0.8
	0.3		
41	4.0		4.6
42	4.6	4.5	4.6
43	4.1	0	3.9
44	4.6	0	1.6
45	0	0	1.5
46			
47	4.6	4.5	4.6
48	0	0	0
49	4.6	0	0
50	2.1	0	3.0
51	4.6	4.5	4.6
52	2.3	0	2.2
53	2.3	2.3	2.3
54			
55	0	0	0
56	0.1	0	4.6
57	0.1	1.4	0
58		0	
	0.1		0.1
59	0	0	0
60	0.1	0	0.1
61	0.3	1.4	0.1
62	3.2	4.1	3.5
63	0.1	0.1	0.3
64	0.3	0.3	4.2
65	2.2	2.2	0.4
66	0.7	0.78	0.4
67	2.3	2.3	2.3
68	2.3	2.3	2.3
69	2.3	1.4	2.3

MODE PIN NO.	REC	PLAY	STOP
70	2.1	2.3	2.3
71	0	0	0
72			
	1.0	1.1	2.3
73	4.6	4.6	4.6
74	2.7	2.2	2.3
75	2.0	2.2	2.3
76	2.3	3.8	2.3
77	0.2	0.1	0.1
78	4.0	4.4	4.4
79	2.1	2.1	2.4
80	2.4	3.9	0.4
81	3.9	4.5	4.3
82	3.8	0	4.3
83	0.2	0.1	0.1
84	3.9	4.0	4.4
85	3.7	4.0	4.1
86	0.3	3.5	3.1
87	6.2	1.1	0.1
88	0.1	0.1	0.1
89	0.6	4.5	0.7
90	2.4	1.6	4.0
91	0.3	4.6	0.1
92	0.1	4.6	4.6
93	0.4	0.1	0.5
94	4.5	0.1	4.6
95	4.5	4.5	4.6
96	4.5	0.1	4.6
97	4.6	0.1	4.6
98	2.3	2.3	4.6
99	4.6	0.1	0.1
100	0.3	1.4	0.2
IC6002	0.5	1.7	0.2
1	4.4	4.4	4.4
	4.4		4.4
2	4.5	4.5	4.2
3			
4	0	0	4.4
IC6005			
1	0.9	0.8	0.2
2	1.9	1.0	0.5
3	1.0	0.9	0.4
4	0	0	0
5	0.3	0.3	0.2
6	4.5	4.5	4.5
7	7.0	1.2	3.8
8	4.3	4.2	4.2
IC6006	7.5	7.2	7.4
1	0	0	-
	_	0	0
2	6.5	6.5	6.6
3	4.5	4.5	4.5
IC6007			
1	0	0	0
2	0	0	0
3	0.6	2.0	0.5
4	6.5	6.5	6.6
5	6.5	6.5	6.6

/MODE	REC	PLAY	STOP
PIN NO.			
6	0.1	0.1	0.1
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0.1	0
12	4.5	4.6	4.5
13	0	0	0
14	0.4	2.0	0.6
15	0	0	0
16	0	0	0
IC6203			
1	1.2	0	1.2
2	0	0	0
	0	0	0
3			
4	2.6	0	4.2
Q6004			
E	4.6	4.6	4.5
C			
	0.1	0.1	0.1
В	4.6	4.5	4.5
Q6005			
E	4.7	0	1.4
С	4.5	4.5	4.5
В	4.6	0	0
Q6008			
Е	4.5	0	1.2
C	4.5	0.1	4.5
В	4.6	0	0
Q6009	7.0	<del></del>	
E	4.6	4.6	4.6
		4.6	
С	0.3	5.0	9.9
В	2.3	2.0	2.0
Q6010			
Е	0	0	0
С	0	0.1	0.1
В	4.5	4.5	4.5
Q6011			
E	4.6	4.6	4.6
C	4.6	0.3	0
В	4.0	4.5	4.6
	4.0	4.5	4.0
Q6012			
G	0	0	0
S	0	0	0
D	4.1	4.4	4.4
Q6013			
Е	0.3	0.3	0.2
С	7.2	7.1	7.2
В	0.3	0.3	0.1
Q6018	1 7	2 1	22
Q6018 E	1.7	2.1	2.2
Q6018 E C	4.2	3.7	3.6
Q6018 E			

MODE PIN NO.	REC	PLAY	STOP
Q6021			
Е	6.8	6.8	6.8
С	6.8	6.9	6.6
В	6.1	6.2	5.9
Q6022		0.1	
E	0	0	0
C	0	0	0
В	0.6	0.6	0.6
Q6026	0.0	0.0	0.0
E	6.8	6.8	6.6
C	6.8	6.8	6.6
В	2.9	2.9	2.8
Q6201	2.5	2.5	2.0
E	1 E	15	1 5
C	4.5 4.5	4.5 4.5	4.5 4.5
В	3.8		
	3.0	3.8	3.8
Q6202	0	_	
E	0	0	0
С	0	0	0
В	0.6	0.6	0.6
TDOOGA		0.5	
TP6001	0.5	0.5	0.3
TP6003	0.1	0.1	0.1
TP6004	3.8		4.4
TP6006	0.9	3.8	1.2
TP6007	3.3		4.1
TP6010	4.5	4.6	4.5
TP6011	4.2	4.4	2.5
TP6012	4.1	4.5	4.5
TP6014	4.4	4.4	2.5
TP6015	4.5	4.6	4.6
TP6020	4.1	4.2	4.2
TP6021	1.0	3.4	3.7
TP6022	1.0	3.7	0
TP6023	0.1		0.1
TP6201	2.3	2.3	0.1
TP6202	2.3	2.3	2.3
TP6205	3.2	2.3	3.2
TP6206	3.4	2.3	3.2
TP6207	2.3	2.3	2.3
TP6208	0.8	0.5	0.7
TP6210	0.5	2.2	0.5
TP6212	1.6	1.9	0.1
TP6215	0.1	0	4.6
TP6216	4.6	0	0
TP6220	0.7	0.7	0
1		1	1

EVF C.I (B,C,

MODE PIN NO.

IC901

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Q901

Е

С

В

Q902 E C

В

TP901 TP902

B,C,D,E,F)	R EVF A/B C.B.A.	(

MERA	MODE	CAMERA		MODE	CAMERA
	PIN NO.			PIN NO.	
	IC901			Q902	
2.0	1	1.7		Е	0
4.5	2	1.7		С	3.9
2.0	3	1.6		В	0.7
	4				
2.0	5			Q903	
0.6	6			Е	3.3
0	7			С	4.6
4.2	8	1.3		В	3.9
3.7	9			Q904	
)	10	6.2		E	4.1
1.8	11	6.2		C1	4.6
1.4	12	6.2		B1	4.7
2.6	13	6.2		C2	16.0
1.9	14	6.2		B2	12.3
1.8	15	0		Q905	
2.2	16	6.2		E	15.0
	17	0		С	12.3
	18	0		В	14.7
0	19				
5.9	20	0.1		TP901	6.2
0.5	21			TP902	6.2
	22	1.6		TP903	6.2
2.9	23			TP904	0.4
9.6	24	0		TP905	
2.3	25	3.2		TP906	12.3
	26	0			
3.7	27	1.4			
1.2	28	0			
	29	0.1			
	30				
	31	1.6			
	32				
	33				
	34	0			
	35				
	36	0.4			
	37	0.6			
	38	2.7			
	39	2.7			
	40				
	41				
	42				
	43	0			
	44	3.2			
	45	0			
	46				
	47	2.1			
	48	1.9			
	Q901				
	S	0			
	D	2.7			
	G	1.2			

# LC

MODE (NINO)         CAMERA PINNO.           2 NINO         46           2 0.1         46           3 4.5         47           4 1.0         5           5 0.4         6           6 0         3           7 0.5         4           8 0.1         5           C9001         1           1 1.7         2           2 1.7         E           3 1.7         C           4         B           5         C           6         C           7         B           8 0.9         B           9 3.9         Q1203           6         E           7         B           8 0.9         B           9 3.9         Q1204           10 2.6         E           11 2.6         C           12 2.3         B           13 2.6         C           14 2.6         E           15 2.6         C           16 2.6         C           17 0.1         C           18 7.5         E           19 0.1         C	CD C	.B.A. (	C,D,E	Ē,F)	
NINNO.         PINNO.           C1201         46         2.3           1         0.8         47         2.0           2         0.1         48         1.9           IC9002         1         0         0           4         1.0         1         0           5         0.4         2         -14.8           6         0         3         6.1           7         0.5         4         6.1           8         0.1         5         12.2           C9001         1         1.7         Q           2         1.7         E         0.1           3         1.7         C         0.1           4          B         0.7           Q1203         E         3.6           6          Q         E         3.6           7          B         0.7         Q         1203           6          Q         1203         E         3.6           11         2.6         C         3.6         G         C         3.6           12         2.3         B	MODE	CAMERA		\MODE	CAMERA
C1201         46         2.3           1         0.8         47         2.0           2         0.1         48         1.9           3         4.5         1         0           4         1.0         1         0           5         0.4         2         -14.8           6         0         3         6.1           7         0.5         4         6.1           8         0.1         5         12.2           C9001         1         1.7         2           2         1.7         E         0.1           C9001         1         1.7         C           2         1.7         E         0.1           C9001         1         1.7         C           2         1.7         E         0.1           3         1.7         C         0.1           4          C         0.1           5          C         3.6           7          C         3.6           7          C         3.6           11         2.6         E	$\overline{}$	OF UTILI VI			<i>5</i> , 411∟1 V \
1       0.8       47       2.0         2       0.1       48       1.9         3       4.5       1       0         4       1.0       1       0         5       0.4       2       -14.8         6       0       3       6.1         7       0.5       4       6.1         8       0.1       5       12.2         C9001       1       1.7       Q         1       1.7       Q       1202         2       1.7       E       0.1         3       1.7       C       0.1         4        B       0.7         5        Q       1203         6        C       3.6         8       0.9       B       0.1         9       3.9       Q       1203         6        C       3.6         7        C       3.6         8       0.9       B       0.1         9       3.9       Q       1204         10       2.6       E       3.6         11					2.0
2       0.1       48       1.9         3       4.5       4       1.0         5       0.4       2       -14.8         6       0       3       6.1         7       0.5       4       6.1         8       0.1       5       12.2         C9001       1       1.7       Q1202         2       1.7       E       0.1         3       1.7       E       0.1         4        B       0.7         5        Q1203       E         6        E       3.6         7        C       3.6         8       0.9       B       0.1         9       3.9       Q1204       E         10       2.6       E       3.6         11       2.6       C       3.6         12       2.3       B       0.1         13       2.6       C       3.6         14       2.6       E       3.6         15       2.6       C       0.1         18       7.5       E       0.1		0.0			
3       4.5         4       1.0         5       0.4         6       0         7       0.5         8       0.1         C9001       1         1       1.7         2       1.7         3       1.7         4          5          6          5          6          5          6          7          8       0.9         9       3.9         10       2.6         11       2.6         12       2.3         13       2.6         14       2.6         15       2.6         16       2.6         17       0.1         18       7.5         19       0.1         20       0.1         21       0.3         22       1.6         23       1.6         24       1.6         25       3.3         26       1					
4       1.0       1       0         5       0.4       2       -14.8         6       0       3       6.1         7       0.5       4       6.1         8       0.1       5       12.2         C9001       1       1.7       C         2       1.7       E       0.1         3       1.7       E       0.1         4        B       0.7         5        Q1203       E         6        E       3.6         7        C       3.6         8       0.9       B       0.1         9       3.9       Q1204         10       2.6       E       3.6         11       2.6       C       3.6         12       2.3       B       0.1         13       2.6       C       3.6         14       2.6       E       3.6         15       2.6       C       0.1         16       2.6       E       3.6         17       0.1       Q1206       E         18       <					1.9
5         0.4           6         0           7         0.5           8         0.1           C9001         1           1         1.7           2         1.7           3         1.7           4            5            6            5            6            5            6            6            6            6            6            6            6            6            7            8         0.9           9         3.9           10         2.6           11         2.6           12         2.3           13         2.6           14         2.6           15         2.6           16         2.6           17         0.1           18         7.5           19					
6         0         3         6.1           7         0.5         4         6.1           8         0.1         5         12.2           C9001         1         1.7         2           2         1.7         E         0.1           3         1.7         E         0.1           4          B         0.7           5          C         3.6           6          E         3.6           7          E         3.6           8         0.9         B         0.1           9         3.9         Q1204         E           10         2.6         E         3.6           11         2.6         C         3.6           12         2.3         B         0.1           Q1205         E         3.6           C         3.6         C         3.6           12         2.3         B         0.1           Q1205         E         3.6         C           15         2.6         C         0.1           18         7.5         E	4	1.0		1	
7         0.5         4         6.1           8         0.1         5         12.2           C9001         1         1.7         Q1202           2         1.7         E         0.1           3         1.7         C         0.1           4          B         0.7           5          C         3.6           6          C         3.6           7          C         3.6           8         0.9         B         0.1           9         3.9         Q1204         E           10         2.6         E         3.6           11         2.6         C         3.6           12         2.3         B         0.1           Q1205         E         3.6           C         3.6         E         3.6           C         3.6         E         3.6           C         3.6         E         3.6           C         0.1         Q1205         E           14         2.6         E         3.6           C         0.1         C <td>5</td> <td>0.4</td> <td></td> <td>2</td> <td>-14.8</td>	5	0.4		2	-14.8
8       0.1       5       12.2         C9001       1       1.7       Q1202         2       1.7       E       0.1         3       1.7       C       0.1         4        B       0.7         5        C       3.6         6        C       3.6         7        C       3.6         8       0.9       B       0.1         9       3.9       Q1204         10       2.6       E       3.6         11       2.6       C       3.6         12       2.3       B       0.1         Q1204       C       3.6       C         11       2.6       C       3.6         12       2.3       B       0.1         Q1205       E       3.6       C         14       2.6       E       3.6         15       2.6       C       0.1         16       2.6       B       3.6         17       0.1       Q1206       B         18       7.5       E       0.1         20 <td>6</td> <td>0</td> <td></td> <td>3</td> <td>6.1</td>	6	0		3	6.1
8       0.1       5       12.2         C9001       1       1.7       Q1202         2       1.7       E       0.1         3       1.7       C       0.1         4        B       0.7         5        C       3.6         6        C       3.6         7        C       3.6         8       0.9       B       0.1         9       3.9       Q1204         10       2.6       E       3.6         11       2.6       C       3.6         12       2.3       B       0.1         Q1204       C       3.6       C         11       2.6       C       3.6         12       2.3       B       0.1         Q1205       E       3.6       C         14       2.6       E       3.6         15       2.6       C       0.1         16       2.6       B       3.6         17       0.1       Q1206       B         18       7.5       E       0.1         20 <td>7</td> <td>0.5</td> <td></td> <td>4</td> <td>6.1</td>	7	0.5		4	6.1
1       1.7       Q1202         2       1.7       E       0.1         3       1.7       C       0.1         4        B       0.7         5        C       3.6         6        C       3.6         7        C       3.6         8       0.9       B       0.1         9       3.9       Q1204       10         10       2.6       E       3.6         11       2.6       C       3.6         12       2.3       B       0.1         13       2.6       C       3.6         14       2.6       E       3.6         15       2.6       C       0.1         14       2.6       E       3.6         15       2.6       C       0.1         16       2.6       B       3.6         17       0.1       Q1205       E         18       7.5       E       0.1         20       0.1       B       0.1         21       0.3       2       1.6         23	8			5	
1       1.7       Q1202         2       1.7       E       0.1         3       1.7       C       0.1         4        B       0.7         5        C       3.6         6        C       3.6         7        C       3.6         8       0.9       B       0.1         9       3.9       Q1204       10         10       2.6       E       3.6         11       2.6       C       3.6         12       2.3       B       0.1         13       2.6       C       3.6         14       2.6       E       3.6         15       2.6       C       0.1         14       2.6       E       3.6         15       2.6       C       0.1         16       2.6       B       3.6         17       0.1       Q1205       E         18       7.5       E       0.1         20       0.1       B       0.1         21       0.3       2       1.6         23	C9001				
2       1.7         3       1.7         4          5          6          7          8       0.9         9       3.9         10       2.6         11       2.6         12       2.3         13       2.6         14       2.6         15       2.6         16       2.6         17       0.1         18       7.5         19       0.1         20       0.1         21       0.3         22       1.6         23       1.6         24       1.6         23       1.6         24       1.6         25       3.3         26       1.8         27       0.7         28       0.1         29       0.1         30       0.1         31       0.6         32       0.5         33       0.5         34       0.5         35       0.1         36		17		Q1202	
3       1.7         4          5          6          7          8       0.9         9       3.9         10       2.6         11       2.6         12       2.3         13       2.6         12       2.3         13       2.6         14       2.6         15       2.6         16       2.6         17       0.1         18       7.5         19       0.1         20       0.1         21       0.3         22       1.6         23       1.6         24       1.6         23       1.6         24       1.6         25       3.3         26       1.8         27       0.7         28       0.1         29       0.1         30       0.1         31       0.6         32       0.5         33       0.5         34       0.5         35 <td></td> <td></td> <td></td> <td></td> <td>0.1</td>					0.1
4          B         0.7           5          Q1203         E         3.6           7          C         3.6         B         0.1           9         3.9         Q1204         D         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1 <td></td> <td></td> <td></td> <td></td> <td></td>					
5          Q1203         E         3.6           7          C         3.6         B         0.1         9         3.9         Q1204         B         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1 <t< td=""><td></td><td>1.7</td><td></td><td></td><td></td></t<>		1.7			
6          E         3.6           7          C         3.6           8         0.9         B         0.1           9         3.9         Q1204         C           10         2.6         E         3.6           11         2.6         C         3.6           12         2.3         B         0.1           13         2.6         C         0.1           14         2.6         E         3.6           15         2.6         C         0.1           16         2.6         B         3.6           C         0.1         B         3.6           C         0.1         B         3.6           Q1206         B         3.6         C           Q1206         B         3.6         C           Q1206         B         3.6         C           Q1207         E         3.6         C           Q1207         23         1.6         E         3.6           24         1.6         E         3.6         C         -15.4           25         3.3         B <t< td=""><td></td><td></td><td></td><td></td><td>0.7</td></t<>					0.7
7          C         3.6           8         0.9         B         0.1           9         3.9         Q1204         C           10         2.6         E         3.6           11         2.6         C         3.6           11         2.6         C         3.6           12         2.3         B         0.1           13         2.6         C         0.1           14         2.6         E         3.6           15         2.6         C         0.1           16         2.6         E         3.6           17         0.1         Q1206           18         7.5         E         0.1           19         0.1         C         4.2           20         0.1         B         0.1           21         0.3         C         15.4           23         1.6         E         3.6           24         1.6         C         -15.4           25         3.3         B         3.7           28         0.1         C         15.5           29         0.1					
8         0.9         B         0.1           9         3.9         Q1204         C           10         2.6         E         3.6           11         2.6         C         3.6           12         2.3         B         0.1           13         2.6         C         0.1           14         2.6         E         3.6           15         2.6         C         0.1           16         2.6         B         3.6           17         0.1         Q1206         B           18         7.5         E         0.1         C         4.2           20         0.1         B         0.1         C         4.2         A.2         A.2         A.2         A.2         A.2         A.2         A.2         A.2         A.2         A.3         A.2         A.3         B         0.1         A.2         A.2         A.3         B.3         A.3         A.2         A.3         B.3         A.7         A.2         A.3         B.3         A.7         A.2         A.3         B.3         A.7         A.3         A.3         B.3         A.7         A.3         A.3 <td></td> <td></td> <td></td> <td></td> <td></td>					
9         3.9         Q1204         E         3.6           11         2.6         C         3.6         C         3.6           12         2.3         B         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1					
10         2.6         E         3.6           11         2.6         C         3.6           12         2.3         B         0.1           13         2.6         C         0.1           14         2.6         E         3.6           15         2.6         C         0.1           16         2.6         B         3.6           17         0.1         Q1206           18         7.5         E         0.1           19         0.1         C         4.2           20         0.1         B         0.1           21         0.3         C         4.2           23         1.6         E         3.6           24         1.6         C         -15.4           25         3.3         B         3.7           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B					0.1
11         2.6           12         2.3           13         2.6           14         2.6           15         2.6           16         2.6           17         0.1           18         7.5           19         0.1           20         0.1           21         0.3           22         1.6           23         1.6           24         1.6           25         3.3           26         1.8           27         0.7           28         0.1           29         0.1           30         0.1           31         0.6           32         0.5           33         0.5           34         0.5           35         0.1           36         0.4           37         0.9           38         2.9           40         0.1           41         3.3           42         0.5           43            40         0.1           41         3.3		3.9			
12       2.3       B       0.1         13       2.6       Q1205       E       3.6         14       2.6       E       3.6       C       0.1         15       2.6       B       3.6       C       0.1         16       2.6       B       3.6       C       0.1         18       7.5       E       0.1       C       4.2       2         19       0.1       C       4.2       2       1.6       C       4.2       2       1.0       B        0.1       0.1       0.1       2       1.2       1.6       C       1.5       4.2       1.6       C       -15.4       2.5       3.3       B       3.7       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1 </td <td>10</td> <td>2.6</td> <td></td> <td></td> <td>3.6</td>	10	2.6			3.6
12       2.3       B       0.1         13       2.6       Q1205       E       3.6         14       2.6       E       3.6       C       0.1         15       2.6       B       3.6       C       0.1         16       2.6       B       3.6       C       0.1         18       7.5       E       0.1       C       4.2       2         19       0.1       C       4.2       2       1.6       C       4.2       2       1.0       B        0.1       0.1       0.1       2       1.2       1.6       C       1.5       4.2       1.6       C       -15.4       2.5       3.3       B       3.7       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1       0.1 </td <td>11</td> <td>2.6</td> <td></td> <td>С</td> <td>3.6</td>	11	2.6		С	3.6
13         2.6         Q1205           14         2.6         E         3.6           15         2.6         B         3.6           16         2.6         B         3.6           17         0.1         Q1206         B           18         7.5         E         0.1           19         0.1         C         4.2           20         0.1         B         0.1           21         0.3         C         4.2           23         1.6         E         3.6           24         1.6         C         -15.4           25         3.3         B         3.7           26         1.8         Q1208           27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209         E           31         0.6         E         15.0           Q         C         15.5           33         0.5         B         15.5           34         0.5         Q1210      <	12				0.1
14         2.6         E         3.6           15         2.6         C         0.1           16         2.6         B         3.6           17         0.1         Q1206           18         7.5         E         0.1           19         0.1         C         4.2           20         0.1         B         0.1           21         0.3         Q1207           23         1.6         E         3.6           24         1.6         C         -15.4           25         3.3         B         3.7           26         1.8         Q1208           27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209         B           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210           35         0.1         E         0					
15         2.6           16         2.6           17         0.1           18         7.5           19         0.1           20         0.1           21         0.3           22         1.6           23         1.6           24         1.6           25         3.3           26         1.8           27         0.7           28         0.1           29         0.1           30         0.1           31         0.6           32         0.5           33         0.5           34         0.5           34         0.5           35         0.1           36         0.4           37         0.9           38         2.9           40         0.1           41         3.3           42         0.5           43            44         3.2					3.6
16         2.6           17         0.1           18         7.5           19         0.1           20         0.1           21         0.3           22         1.6           23         1.6           24         1.6           25         3.3           26         1.8           27         0.7           28         0.1           29         0.1           30         0.1           31         0.6           32         0.5           33         0.5           34         0.5           34         0.5           35         0.1           36         0.4           37         0.9           38         2.9           40         0.1           41         3.3           42         0.5           43            44         3.2           C         4.8					
17         0.1         Q1206         E         0.1           18         7.5         E         0.1         C         4.2           20         0.1         B         0.1         C         4.2         A.2         A					
18         7.5         E         0.1           19         0.1         C         4.2           20         0.1         B         0.1           21         0.3         C         4.2           22         1.6         Q1207         E           23         1.6         E         3.6           24         1.6         C         -15.4           25         3.3         B         3.7           26         1.8         Q1208           27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         G1209         15.5           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211 </td <td></td> <td></td> <td></td> <td></td> <td>5.0</td>					5.0
19         0.1         C         4.2           20         0.1         B         0.1           21         0.3         C         4.2           22         1.6         Q1207         C           23         1.6         E         3.6           24         1.6         C         -15.4           25         3.3         B         3.7           26         1.8         Q1208           27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209         B           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210         E           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211           39         2.9         E					0.4
20         0.1         B         0.1           21         0.3         C         1           22         1.6         Q1207         C           23         1.6         E         3.6           24         1.6         C         -15.4           25         3.3         B         3.7           26         1.8         Q1208           27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209         B         15.5           31         0.6         E         15.0         C         15.5           32         0.5         C         15.5         B         15.5         G         15.5         B         15.5         G         Q1210         S         B         15.5         G         Q1210         S         B         0         G         Q1210         S         G         Q1210         S         G         Q1211         G         G         Q1211         G         G         Q1211         G         Q1211         G         Q1211					
21         0.3           22         1.6           23         1.6           24         1.6           25         3.3           26         1.8           27         0.7           28         0.1           29         0.1           30         0.1           31         0.6           32         0.5           33         0.5           34         0.5           35         0.1           36         0.4           37         0.9           38         2.9           40         0.1           41         3.3           42         0.5           43            44         3.2					
22       1.6       Q1207         23       1.6       E       3.6         24       1.6       C       -15.4         25       3.3       B       3.7         26       1.8       Q1208         27       0.7       E       15.0         28       0.1       C       15.5         29       0.1       B       15.5         30       0.1       Q1209       31         31       0.6       E       15.0         32       0.5       C       15.5         33       0.5       B       15.5         34       0.5       Q1210         35       0.1       E       0         36       0.4       C       0         37       0.9       B       0         38       2.9       Q1211         39       2.9       E       3.7         40       0.1       C       3.8         41       3.3       B       4.3         42       0.5       Q1212       E         43        E       0.1         44       3.2       C				В	0.1
23         1.6         E         3.6           24         1.6         C         -15.4           25         3.3         B         3.7           26         1.8         Q1208           27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209         B           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211         3           39         2.9         E         3.7           40         0.1         C         3.8           41         3.3         B         4.3           42         0.5         Q1212           43          E         0.1					
24         1.6           25         3.3           26         1.8           27         0.7           28         0.1           29         0.1           30         0.1           31         0.6           32         0.5           33         0.5           34         0.5           35         0.1           36         0.4           37         0.9           38         2.9           40         0.1           41         3.3           42         0.5           43            44         3.2     C -15.4  B -3.7  C 15.0  C 15.5  B 15.5  C 15.5  B 15.5  Q1210  B 0  C 0  35  G1210  C 3.8  B 4.3  C 4.8	22	1.6		Q1207	
25     3.3     B     3.7       26     1.8     Q1208       27     0.7     E     15.0       28     0.1     C     15.5       29     0.1     B     15.5       30     0.1     Q1209     E       31     0.6     E     15.0       32     0.5     C     15.5       33     0.5     B     15.5       34     0.5     Q1210       35     0.1     E     0       36     0.4     C     0       37     0.9     B     0       38     2.9     Q1211       39     2.9     E     3.7       40     0.1     C     3.8       41     3.3     B     4.3       42     0.5     Q1212       43      E     0.1       44     3.2     C     4.8	23	1.6			
26         1.8         Q1208           27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209         S           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211           39         2.9         E         3.7           40         0.1         C         3.8           41         3.3         B         4.3           42         0.5         Q1212           43          E         0.1           44         3.2         C         4.8	24	1.6		С	-15.4
26         1.8         Q1208           27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209         S           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211           39         2.9         E         3.7           40         0.1         C         3.8           41         3.3         B         4.3           42         0.5         Q1212           43          E         0.1           44         3.2         C         4.8	25	3.3		В	3.7
27         0.7         E         15.0           28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         Q1209         E           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211           39         2.9         E         3.7           40         0.1         C         3.8           41         3.3         B         4.3           42         0.5         Q1212           43          E         0.1           44         3.2         C         4.8				Q1208	
28         0.1         C         15.5           29         0.1         B         15.5           30         0.1         E         15.0           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211           39         2.9         E         3.7           40         0.1         C         3.8           41         3.3         B         4.3           42         0.5         Q1212           43          E         0.1           44         3.2         C         4.8					15.0
29         0.1         B         15.5           30         0.1         Q1209           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211           39         2.9         E         3.7           40         0.1         C         3.8           41         3.3         B         4.3           42         0.5         Q1212           43          E         0.1           44         3.2         C         4.8					
30         0.1         Q1209           31         0.6         E         15.0           32         0.5         C         15.5           33         0.5         B         15.5           34         0.5         Q1210         E           35         0.1         E         0           36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211           39         2.9         E         3.7           40         0.1         C         3.8           41         3.3         B         4.3           42         0.5         Q1212           43          E         0.1           44         3.2         C         4.8					
31     0.6     E     15.0       32     0.5     C     15.5       33     0.5     B     15.5       34     0.5     Q1210     E       35     0.1     E     0       36     0.4     C     0       37     0.9     B     0       38     2.9     Q1211       39     2.9     E     3.7       40     0.1     C     3.8       41     3.3     B     4.3       42     0.5     Q1212       43      E     0.1       44     3.2     C     4.8					10.0
32     0.5       33     0.5       34     0.5       35     0.1       36     0.4       37     0.9       38     2.9       40     0.1       41     3.3       42     0.5       43        44     3.2       C     15.5       B     15.5       Q1210     0       B     0       Q1211     0       38     0       41     3.3       42     0.5       43        44     3.2					15.0
33     0.5       34     0.5       35     0.1       36     0.4       37     0.9       38     2.9       39     2.9       40     0.1       41     3.3       42     0.5       43        44     3.2       B     15.5       Q1210       B     0       Q1211       C     3.8       B     4.3       Q1212       E     0.1       C     4.8					
34         0.5           35         0.1           36         0.4           37         0.9           38         2.9           39         2.9           40         0.1           41         3.3           42         0.5           43            44         3.2           C         4.8					
35     0.1     E     0       36     0.4     C     0       37     0.9     B     0       38     2.9     Q1211       39     2.9     E     3.7       40     0.1     C     3.8       41     3.3     B     4.3       42     0.5     Q1212       43      E     0.1       44     3.2     C     4.8					15.5
36         0.4         C         0           37         0.9         B         0           38         2.9         Q1211           39         2.9         E         3.7           40         0.1         C         3.8           41         3.3         B         4.3           42         0.5         Q1212           43          E         0.1           44         3.2         C         4.8					
37     0.9     B     0       38     2.9     Q1211       39     2.9     E     3.7       40     0.1     C     3.8       41     3.3     B     4.3       42     0.5     Q1212       43      E     0.1       44     3.2     C     4.8					
38     2.9       39     2.9       40     0.1       41     3.3       42     0.5       43        44     3.2       Q1212       E     0.1       C     4.8	36			С	0
39     2.9     E     3.7       40     0.1     C     3.8       41     3.3     B     4.3       42     0.5     Q1212       43      E     0.1       44     3.2     C     4.8	37	0.9			0
39     2.9     E     3.7       40     0.1     C     3.8       41     3.3     B     4.3       42     0.5     Q1212       43      E     0.1       44     3.2     C     4.8	38	2.9		Q1211	
40     0.1       41     3.3       42     0.5       43        44     3.2         C     3.8       B     4.3       Q1212        E     0.1       C     4.8	39				3.7
41     3.3     B     4.3       42     0.5     Q1212       43      E     0.1       44     3.2     C     4.8					
42     0.5       43        44     3.2         Q1212       E     0.1       C     4.8					
43        44     3.2       E     0.1       C     4.8					
44 3.2 C 4.8					0.1
		2.2			
40 U.I B U.1					
	45	0.1	l	R	0.1

MODE	CAMERA
PIN NO.	
Q1213	
Е	0.1
С	4.3
В	0.1
Q1214	
G	3.3
S	0.0
	0
	0
Q1215	0
E	0
С	3.1
В	0
Q1216	
Е	0
С	0
В	3.0
Q1217	
Ε	0
С	7.1
В	0.4
Q1218	
E	12.6
C	12.2
B 04040	12.8
Q1219	
E1	12.2
C1	5.0
B1	5.2
E2	5.0
C2	0
B2	4.0
Q1220	
Е	-14.8
C	-15.8
В	-15.0
Q1221	13.0
F	7.6
<u>C</u>	12.6
B	7.5
Q1222	
Е	0.1
С	7.6
В	0
Q9001	(E)
F	0.1
C	5.2
В	0.2
Q9002	
	<del>'</del>
<u>E</u>	0.1
С	5.2
В	0.2

Q9004(D,F) E 0.1 С

В

5.2

0.2

MODE CAMERA PIN NO.

Q9005 (D,F)

0.1

5.2

0.2 Q9051(C,D,F) Ε

0.1

0 -0.2

0

0

0

1.0

4.4

Е

С

В

С

В

С

В

Q9101(E)

E 0

С

В

Q9102(E) E 0

С 0

B 1.8

TP1201 3.3

TP1202 4.5

TP1203 12.2 TP1204 7.6

TP1205 0.1 TP1206 14.8 TP9001 2.6

TP9002 2.6 TP9003 2.6 TP9004 ---TP9005 0.1 TP9006 0.1 TP9007 0.3

Q9052(C,D,F) Е

CCD C.B.A.								
MODE	CAMERA							
PIN NO.								
IC601								
1	-7.5							
2	-7.5							
3	0							
4	0							
5								
6	0							
7 8	14.9							
9	0							
10	5.8							
11	0							
12	0.3							
13	2.4							
14	1.9							
Q601								
Е	2.4							
С	14.9							
В	0							

#### NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

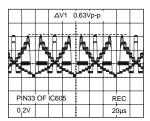
# COMPARISON CHART OF MODELS & MARKS

MODEL	MARK
PV-D300	Α
VM-D100	В
PV-L550	С
PV-L600	D
PV-L650	E
VM-L450	F

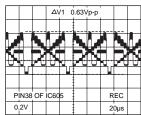
#### MAIN C.B.A.

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Р	IN12	OF	FP8				R	EC	
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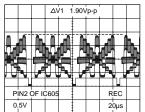
WF1



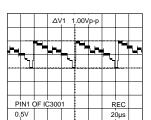
WF2



WF3



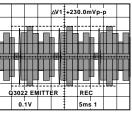
WF4



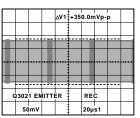
WF5

ΔV1 +480mVp-p
PIN 34 OF IC3001 REC
0.2V 20µs2

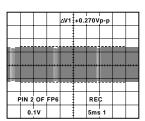
WF6



WF7



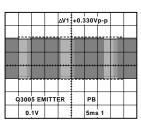
WF8



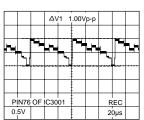
WF9

			∆V1	+0.3	70V	p-p		
	Н							
****	·····	••••	••••		••••		****	****
PIN	OF	FP6			RE	Ç		
0	.1V				5ms	1		

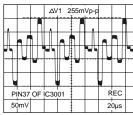
WF10



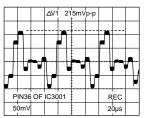
WF11



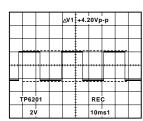
WF12



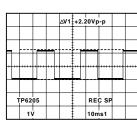
WF13



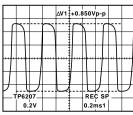
WF14



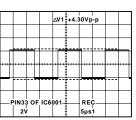
WF15



WF16

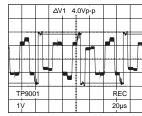


WF17

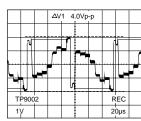


WF18

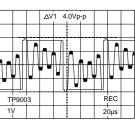
# LCD C.B.A.



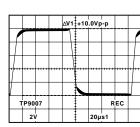
WF19



WF20



WF21



WF22

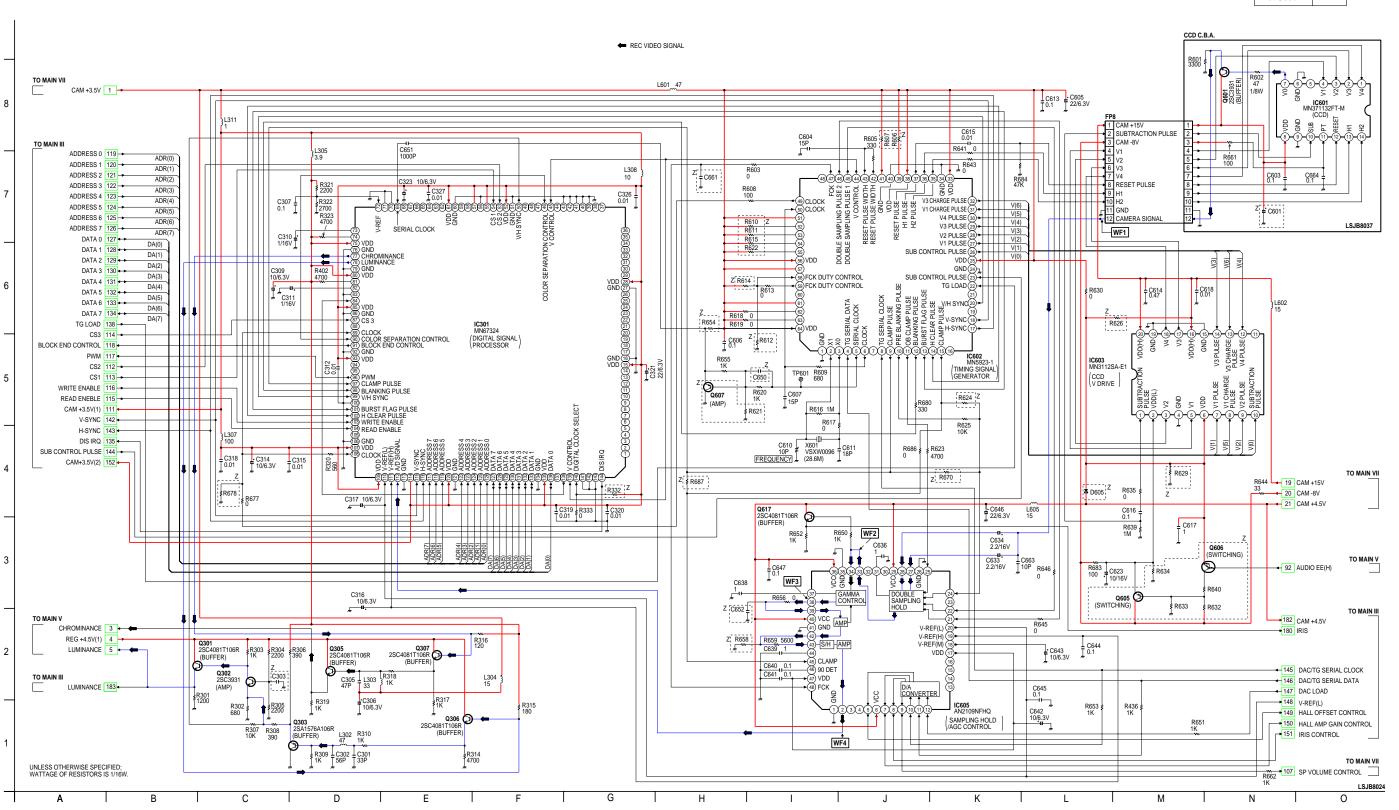
NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

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MODEL MARK
PV-D300 A
VM-D100 B
PV-L550 C
PV-L600 D
PV-L650 E
VM-L450 F
Not Used Z



# IC605 SAMPLING HOLD/AGC CONTROL IC-DETAIL BLOCK DIAGRAM, AN2109FHQ

